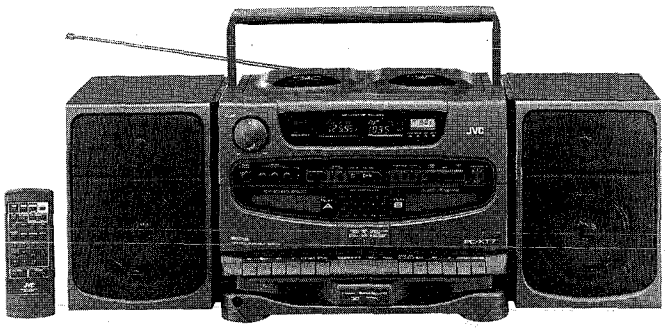
# JVC

# SERVICE MANUAL

## TWIN-CD PORTABLE SYSTEM

# PC-XT7 B/E



COMPACT disc DIGITAL AUDIO

**Area suffix**

| | |
|---|---|
| B | ..... U.K. |
| E | ..... Continental Europe |

## FEATURES

1. **Multi-function Twin-CD portable system with remote control unit.**
   - Twin-CD player with programmable play of up to 20 tunes/repeat play/random play/intro play functions.
   - 8-cm (3-3/16") "CD singles" capability.
2. **MW/LW/FM-stereo PLL synthesizer tuner.**
   - 20-station preset tuning (FM-10, MW-5, LW-5).
   - Seek /Manual tuning.
3. **Synchro-record start for CD recording *convenience.***
4. **Double-cassette mechanism (Deck A for recording and playback, Deck B for playback).**
   - Auto-reverse mechanism for Deck B.
   - Dolby *B Noise Reduction System.
   - Metal and $CrO_2$ tape can be played back, for superior tone quality.
   - Synchro start dubbing function (normal/high-speed dubbing).
   - Relay playback (from Deck B to Deck A).
5. **Timer recording/playback and sleep functions.**
6. **"LIVE EFFEX" sound system for the reproduction of an expanded sound field.**
7. **Hyper-Bass sound system with 3D super woofer.**
8. **5-Band graphic equalizer (S.E.A.) controls.**

* Dolby noise reduction manufactured under license from Dolby *Laboratories Licensing Corporation.*
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

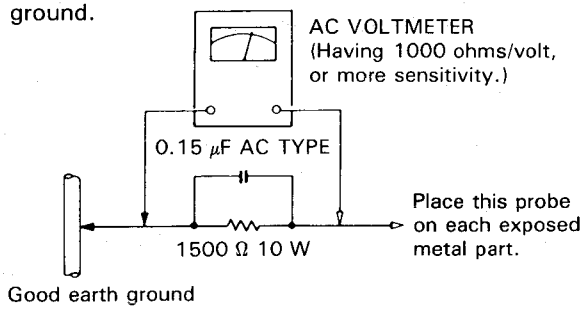
# Contents


| | Page |
|---|---|
| ■ Safety Precautions | 2 |
| ■ Instructions (Extraction) | 5 |
| 1 Location of Main Parts | 17 |
| 2 Removal of Main Parts/Exploded View and Parts List | |
| Receiver Section | 19 |
| Speaker Box Section | 25 |
| CD Mechanism Section | 26 |
| Cassette Mechanism Section | 27 |
| 3 Main Adjustments | |
| Tuner Section | 28 |
| Cassette Section | 31 |
| CD Section | 34 |
| 4 Block Diagram | 35 |
| 5 Standard Schematic Diagram and Location of P.C. Board | |
| Tuner/DTS | 36 |
| Power Amplifier | 38 |
| Pre Amplifier | 40 |
| CD Control | 42 |
| CD Amplifier | 44 |
| Function | 46 |
| 6 Wiring Connections | 48 |
| 7 P.C. Board Parts List | 49 |
| 8 Packing and Parts List | 60 |
| ■ Specifications | 61 |


No. 1844
November 1991

## ■ Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (⚠) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).

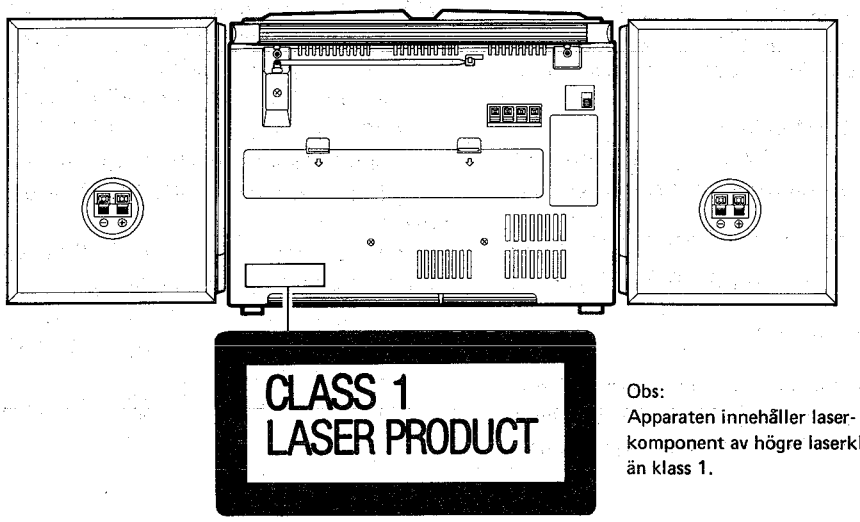

AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

# Warning

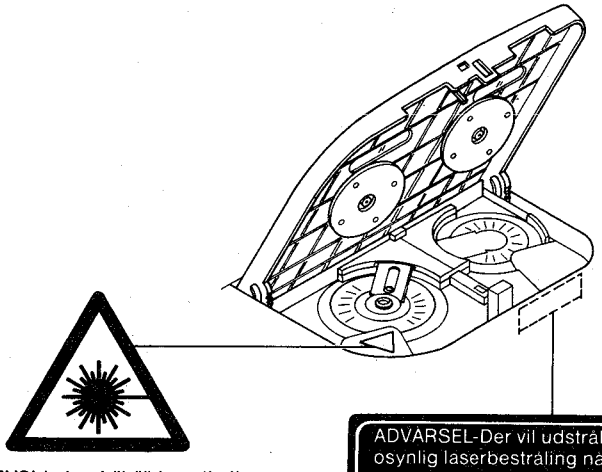
1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are mainteined.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

## IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the disc holder is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.




Obs:
Apparaten innehåller laserkomponent av högre laserklass än klass 1.

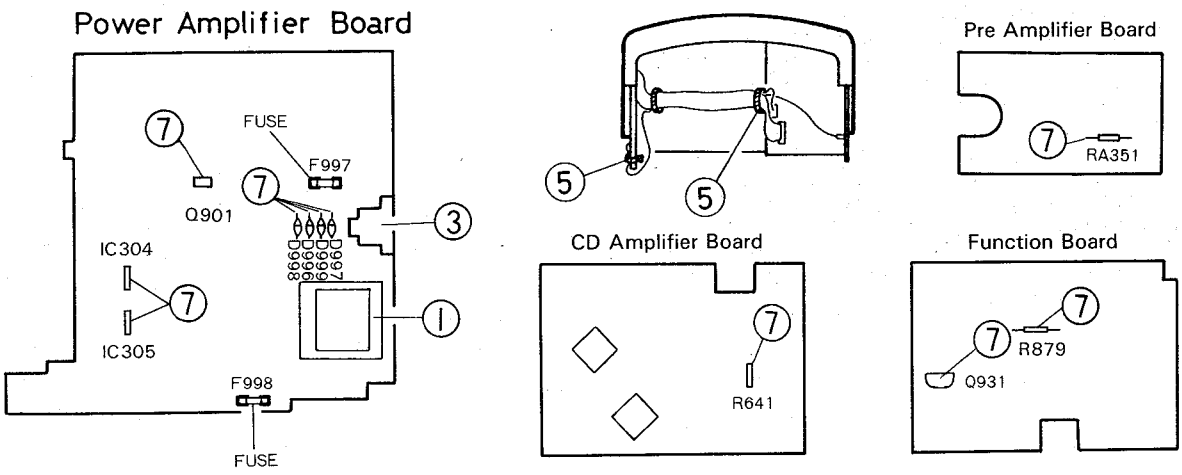


VAROITUS! Laite sisältää laserdiodin, joka lähettää näkymätätöntä silmille vaarallista lasersäteilya.

ADVARSEL-Der vil udstråles osynlig laserbestråling når apparatet åbnes og aflasningsmekanismen frigores. UNDGÅ AT BLIVE UDSET FOR LASERBESTRÅLING.
DANGER-Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

## ■ Important Management Points Regarding Safety

(Items Demanding Special Safety Precautions)




① The power transformer must be checked by the following markings as well as managed in the fastening torque of the screws. Also confirm parts number according to the parts list.

B/E/G : VTP57P2-12C (Marking)

② Power cord: Make sure of the following markings and inspect exterior scratch and damage. (Accessories Parts)

| | Power cord | Connector and Attachment plug |
|---|---|---|
| E/G | ◁ VDE ▷ | Ⓢ and KS-15 or KS-15F |

③ Confirm the AC socket marking:

B/E/G : HSC1466

⑤ Wires and so forth must be securely clamped or fixed as illustrated on the left (at two points) to keep them from power active parts, mobile parts, heating units and sharpedged parts.

⑦ Since the following parts are heat generating ones, they must not contact with electrolytic capacitors, wires, etc.

- Parts in parenthesis ( ) are inflammables. Make sure of their lift-up condition for this purpose.
- Parts in box ☐ are out of JVC control.

(D996) (D997) (D998) (D999) (R641) (Q931) RA351 R879 (Heat sink) (IC304) (IC305) (Q901)

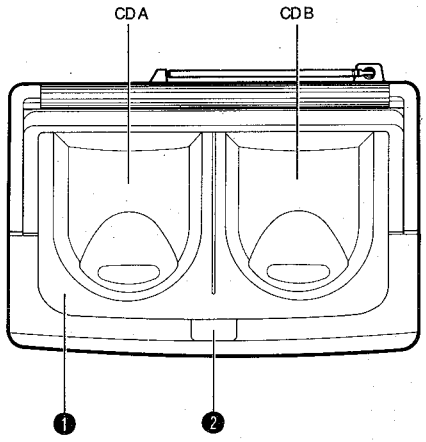
**Fuse**

Confirm Ⓢ and ♆ mark on F997 and F998 and they are tightly retained by fuse holders.

| | | |
|---|---|---|
| E | F998 | Ⓢ , ♆ T5A/250 V |
| E | F997 | Ⓢ , ♆ T5A/250 V |

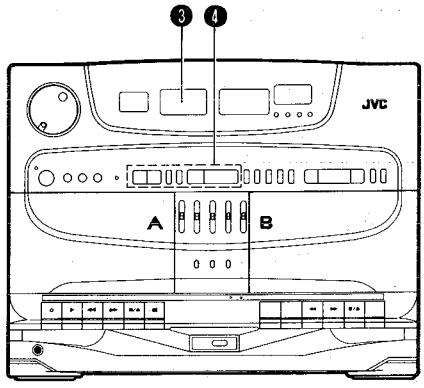
## ■ Instructions (Extraction)

• **Top panel**

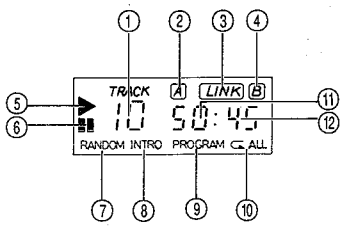



❶ **Disc holder**
❷ **Disc holder open button (PUSH OPEN) (⏏)**

• **Front panel**

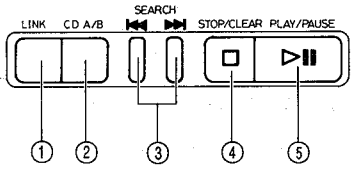



❸ **Display window (CD player section)**

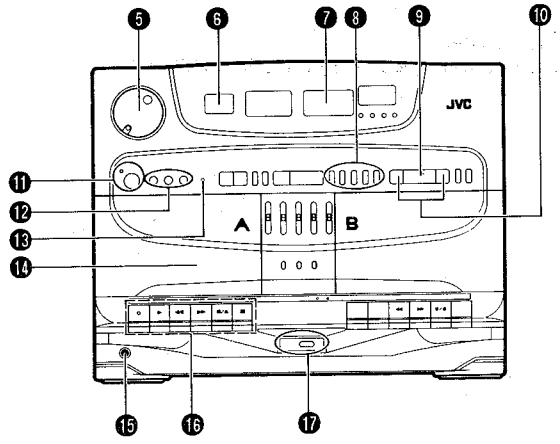


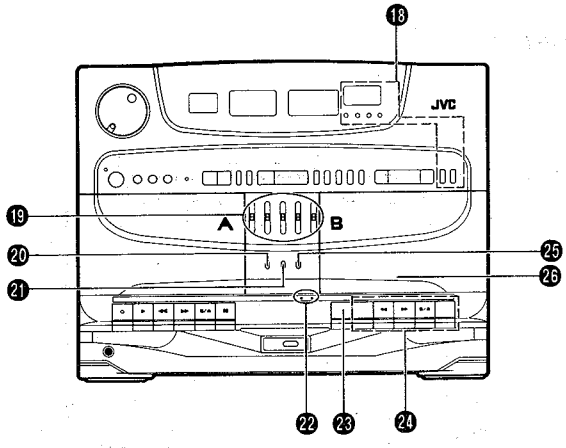

① Track (tune) number display
② CD A indicator
③ LINK indicator
④ CD B indicator
⑤ Play indicator (▶)
⑥ Pause indicator (❚❚)
⑦ RANDOM playback indicator
⑧ INTRO scan indicator
⑨ Program mode indicator (PROGRAM)
⑩ Repeat playback indicator ( ALL)
⑪ Program order number/Time (minute) display
⑫ Time (second) display

❹ **CD operation buttons**




① LINK button
② CD A/B select button
③ SEARCH (⏮ / ⏭) button
④ STOP/CLEAR (□) button
⑤ PLAY/PAUSE (▷❚❚) button

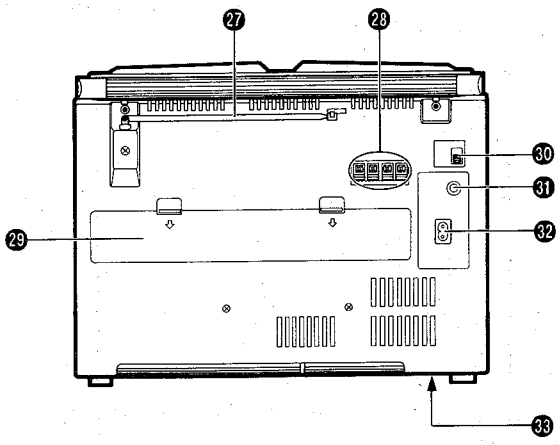



⑤ **VOLUME control and indicator**
⑥ **REMOTE SENSOR section**
⑦ **Display window**
(Tuner section)
BAND indicator (FM 1-FM 2-MW-LW)
Radio frequency display
PRESET STATION indicator
STEREO (FM stereo) indicator
(Tape deck section)
TAPE indicator
⑧ **Preset station buttons**
⑨ **BAND button**
⑩ **TUNING control**
DOWN frequency
UP frequency
⑪ **POWER switch and indicator**
⑫ **FUNCTION switch**
**CD**
Set to this position when listening to or recording from a CD.
**TAPE**
Set to this position to listen to a cassette or to dub a tape.
**TUNER**
Set to this position when listening to or recording from the radio.
⑬ **LIVE EFFEX indicator**
This indicator lights when the LIVE EFFEX button of the remote control unit is pressed and the LIVE EFFEX circuit is switched on.
⑭ **Cassette holder (Deck A)**
⑮ **PHONES jack (3.5 mm dia. stereo mini)**
Connect headphones (impedance 16 Ω - 1 kΩ) to this jack. The speakers are automatically switched off with the headphones connected.
⑯ **Cassette operation buttons (Deck A)**
○ REC:
Press this button with the ▶ PLAY button to start recording.
▶ PLAY:
Press to play the tape.
◀◀ REW:
Press to rewind the tape rapidly.
▶▶ FF:
Press to wind the tape forward rapidly.
■/⏏ STOP/EJECT:
Press to stop the tape. Press the cassette holder.
❚❚ PAUSE:
Press to stop the tape temporarily. Press again to release the pause mode.
⑰ **HYPER-BASS switch and indicator**
ON:
Set to this position to listen to the Hyper-Bass sound.
OFF:
Set to this position when Hyper-Bass sound is not required.
● This function does not work while headphones are being used.

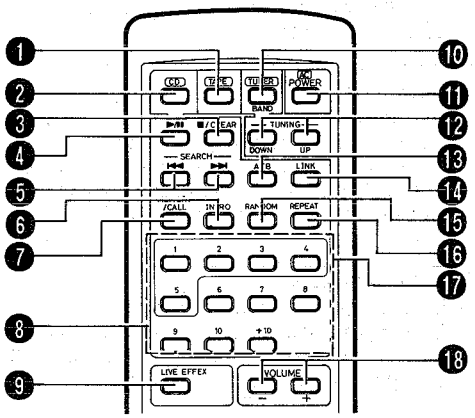
⑱ **Clock/timer operation section**
⑲ **5-BAND GRAPHIC EQUALIZER controls**
⑳ **DUBBING SPEED switch**
HIGH:
Set to this position when dubbing at high-speed.
NORMAL:
Set to this position when dubbing at normal-speed.
㉑ **DOLBY NR switch**
Set to ON ( ) when recording or playing back tapes using the noise reduction system.
㉒ **Tape direction indicator (deck B)**
▶ Forward (FWD) direction
◀ Reverse (REV) direction
㉓ **REVERSE MODE switch**
Full playback
Continuous playback
㉔ **Cassette operation buttons (Deck B)**
PLAY:
Press to play the tape.
◀◀ (Fast wind):
Press to fast wind the tape from right to left.
▶▶ (Fast wind):
Press to fast wind the tape from left to right.
■/⏏ STOP/EJECT:
Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.
◀❚▶ DIRECTION button:
Press to change the direction of tape travel.
㉕ **TAPE (FOR PLAYBACK)/FM MODE switch**
**TAPE (FOR PLAYBACK) switch:**
Set this switch according to the type of tape to be used.
METAL•$CrO_2$: (playback only)
Set to this position to listen to a metal (type IV) or chrome (type II) tape.
NORMAL
Set to this position to listen to a normal (type I) tape.
**FM MODE switch:**
MONO:
Set to this position when FM stereo reception is obscured by noise.
STEREO:
Set to this position when listening to or recording an FM stereo broadcast.
㉖ **Cassette holder (Deck B)**

• Rear panel



㉗ **Telescopic antenna**
㉘ **SPEAKER terminals**
Connect the provided speakers to these terminals
㉙ **Battery compartment cover**
㉚ **BEAT CUT switch**
㉛ **DC IN 12 V jack ( ⟐⊖⟐ ) (PC-XT7E)**
㉜ **AC IN (AC input) jack**
㉝ **Timer/clock battery compartment**

## REMOTE CONTROL UNIT

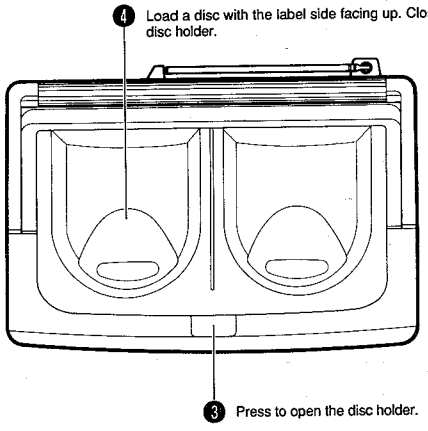


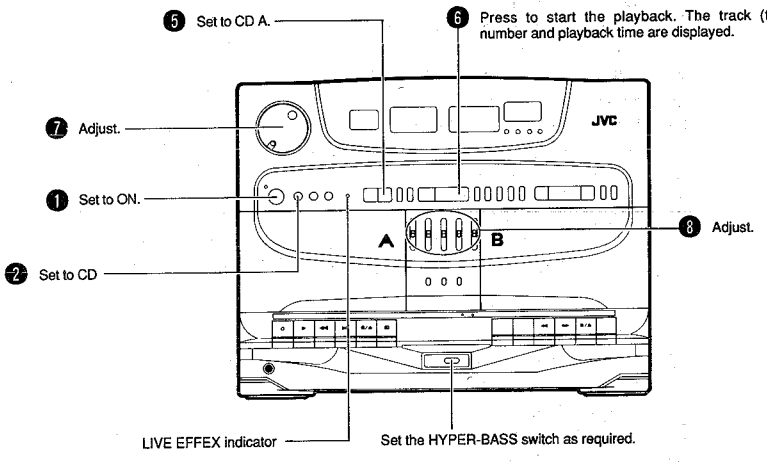
❶ **TAPE mode button**
❷ **CD mode button**
❸ **Stop/clear button (■/CLEAR)**
❹ **Play/pause button (►/II)**
❺ **SEARCH buttons (I◄◄,►►I)**
❻ **INTRO scan button**
❼ **MEMORY/CALL button**
❽ **Track (tune) number buttons (No. 1 - No.10, + 10)**
❾ **LIVE EFFEX button**
❿ **TUNER mode/BAND button**
⓫ **POWER (AC) button**
• When power is supplied from batteries, even when this button is pressed, the PC-XT7 will not be switched on.
⓬ **TUNING control buttons**
DOWN frequency
UP frequency
⓭ **CD A/B select button**
⓮ **LINK button**
⓯ **RANDOM button**
⓰ **REPEAT button**
⓱ **Preset station buttons (No. 1 – No. 5)**
⓲ **VOLUME buttons**
–: Use to decrease the volume.
+: Use to increase the volume.
When the volume is adjusted, the indicator in the VOLUME control of the center control section blinks and its VOLUME control moves clockwise or counterclockwise.

## PLAYING COMPACT DISCS

**Entire tune playback**
(The example shows CD A.)

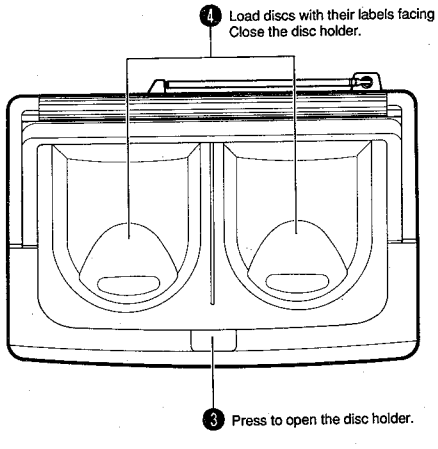
**Operate in order shown**

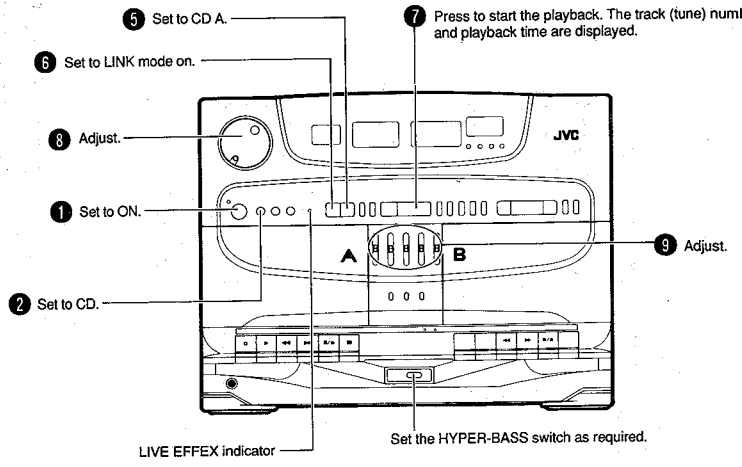




5 Set to CD A.
6 Press to start the playback. The track (tune) number and playback time are displayed.
7 Adjust.
1 Set to ON.
2 Set to CD
8 Adjust.
LIVE EFFEX indicator
Set the HYPER-BASS switch as required.

- To play CD B, load a disc into CD B and press the CD A/B select button to set to the CD B play mode and repeat steps 6 – 8 above.

**To play both CD A and CD B . . .** Two discs can be played one after the other.
(The example shows CD A first, then CD B.)





5 Set to CD A.
7 Press to start the playback. The track (tune) number and playback time are displayed.
6 Set to LINK mode on.
8 Adjust.
1 Set to ON.
9 Adjust.
2 Set to CD.
LIVE EFFEX indicator
Set the HYPER-BASS switch as required.

- When playing CD B first, set to the CD B play mode using the CD A/B select button and repeat steps 6 – 9 above.

**Notes:**
1. To switch to the other CD during CD operation, press the □ STOP/CLEAR button and then select the other disc using the CD A/B select button.
2. After the two CDs have been played, the Twin-CD player stops automatically.

**LINK mode**
Use to play CD A and CD B, one after the other.
LINK is displayed during this mode.
This mode is also activated to use both CDs A and B during Skip play, Programmed playback, Intro-scan, Repeat playback, Random playback.

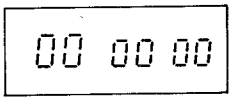
**To stop playback**

- **To stop in the middle of a disc**
  During playback, press the □ STOP/CLEAR button to stop playback. The total number of tracks (tunes) and total playback time are displayed.

- **To stop a disc temporarily**
  Press the ▷II PLAY/PAUSE button to stop a disc temporarily. When pressed again, playback resumes from the point where pause was engaged.

**Caution:**
When changing discs, press the □ STOP/CLEAR button; check that the disc has stopped rotating completely before unloading it.

**Notes:**
- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
  In such a case, check the disc and insert it again and clean or change the disc.

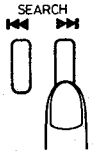



- **Do not use the unit at excessively high or cold temperatures.**
  **The recommended temperature range is 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the disc holder.
- If mistracking occurs during playback, lower the volume.
- Mistracking may occur if the unit is given a strong impact or is used in a place which is subject to vibrations (i.e. in a car travelling on a rough road).

## Skip playback

- During playback, when skipping to the beginning of the next tune or the tune being played back or the previous tune, the beginning of the tune is easily located and the playback starts from there.

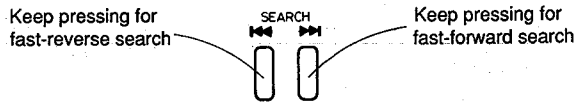
**To listen to the next tune . . .**
Press the ▶▶| button once to skip to the beginning of the next tune.




**To listen to the previous tune . . .**
Press the |◀◀ button to skip to the beginning of the tune being played back and press again to skip to the previous tune.

## Search playback (to locate the required position on the disc)

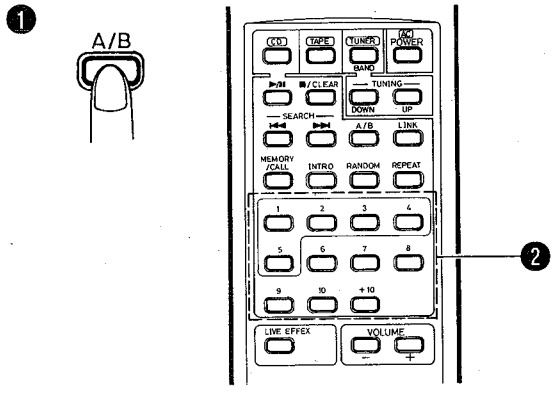
- The required position can be located using fast-forward or reverse search during playback.




- Hold down the button and the search playback starts slowly and then gradually increases speed.
- Since a small sound (about one quarter of playback level) can be audible in both modes, release the button when the required position is located while monitoring the sound.

## Direct access playback (using the remote control)

- When there are no more programmed tunes, pressing any of the track number buttons will start play from the beginning of the designated tune directly, without having to press the ►/II button.



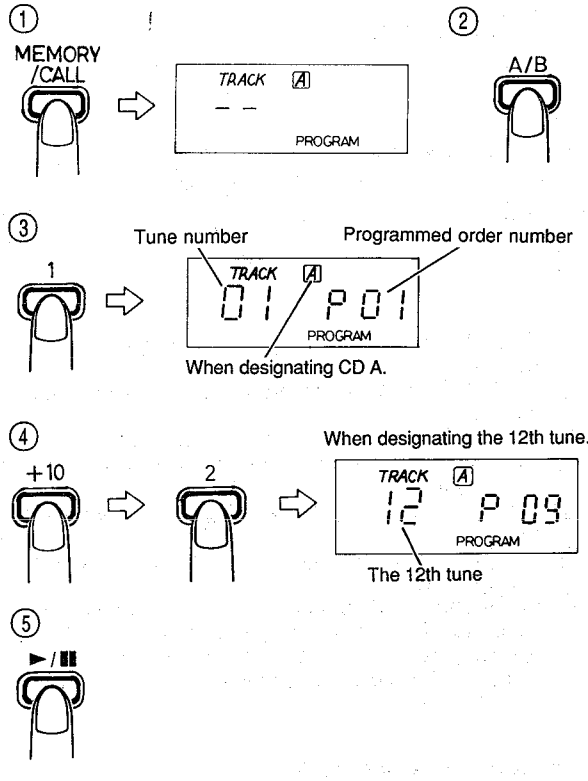

❶ Select CD A or CD B with the CD A/B select button.
❷ Designate the required tune using the track number buttons.
- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
- To designate tune number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 30th tune, press the +10 button twice, then press track number button 10.)

* +10 button:
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- **To skip to another tune during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

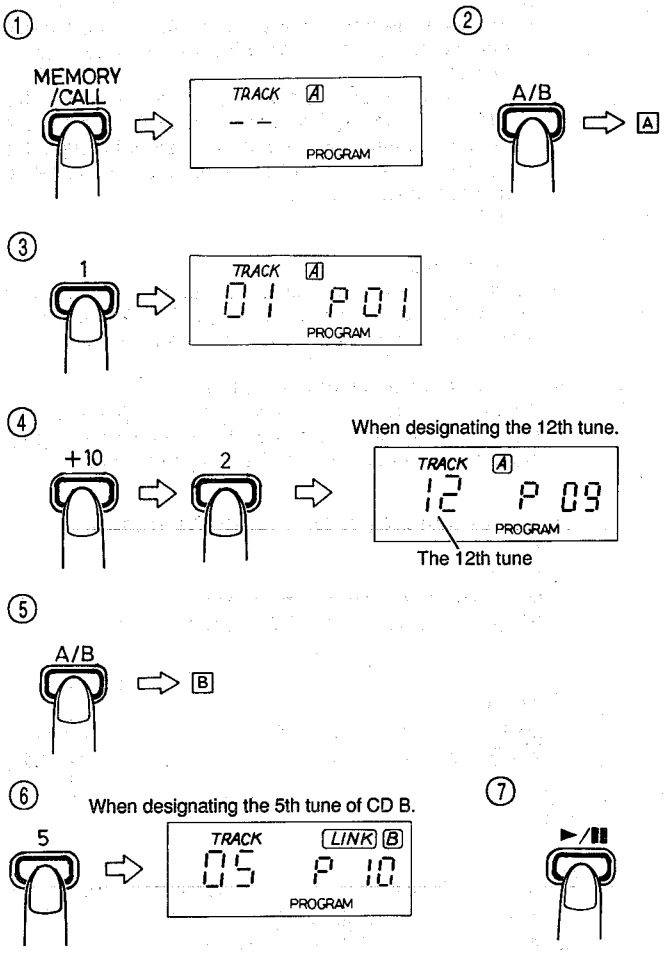
## Programmed playback (using the remote control)

- **Up to 20 tunes can be programmed.**
(Programmed playback of CD A or CD B only)




① Press the MEMORY/CALL button to program the track (tune) number.
② Select CD A or CD B with the CD A/B select button.
③ Press to designate the required track number.
④ Designate the remaining tunes by pressing track number buttons.
⑤ Press the ►/II button when programming is completed. Programmed playback starts.

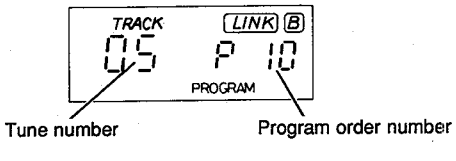
- **Up to 20 tunes can be programmed.**
  (Programmed playback of CDs A and B)




① Press the MEMORY/CALL button to program the track (tune) number.
② Set to the CD A play mode using the CD A/B select button.
③ Press to designate the required track number.
④ Designate the remaining tunes by pressing track number buttons.
⑤ Set to the CD B play mode using the CD A/B select button.
⑥ Designate the remaining tunes by pressing track number buttons.
⑦ Press the ►/II button when programming is completed. Programmed playback starts.
- When programming tunes from both CD A and CD B, use the CD A/B select button to switch between the two CDs.

**To clear programmed tunes...**
Press the □ STOP/CLEAR button before playback. During programmed playback, press this button twice. When the disc holder is opened, the programmed tunes are automatically cleared.

**To confirm the details of programmed tunes...**
When the MEMORY/CALL button is pressed, the details of programmed tunes are displayed in the programmed order.



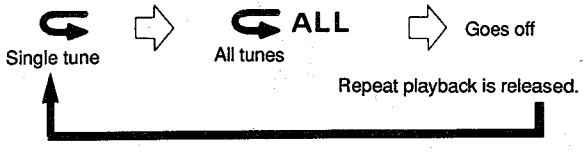

## INTRO-scan operation (using the remote control)

- Just press to play the first 15 seconds of each tune. The operation is released after playing the introductory sections of all tunes or all programmed tunes.
- If the INTRO-scan button is pressed in the middle of a tune, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO-scan button again and normal playback (or programmed playback) will start.

## Repeat playback (using the remote control)

Press the REPEAT button before or during playback. A single tune or all the tunes can be repeated.

A single tune and all the tunes can be specified separately. Each time the REPEAT button is pressed, the mode will be changed from a single tune ( ⊆ ) to all the tunes ( ⊆ ALL) to the clear mode, in this order.



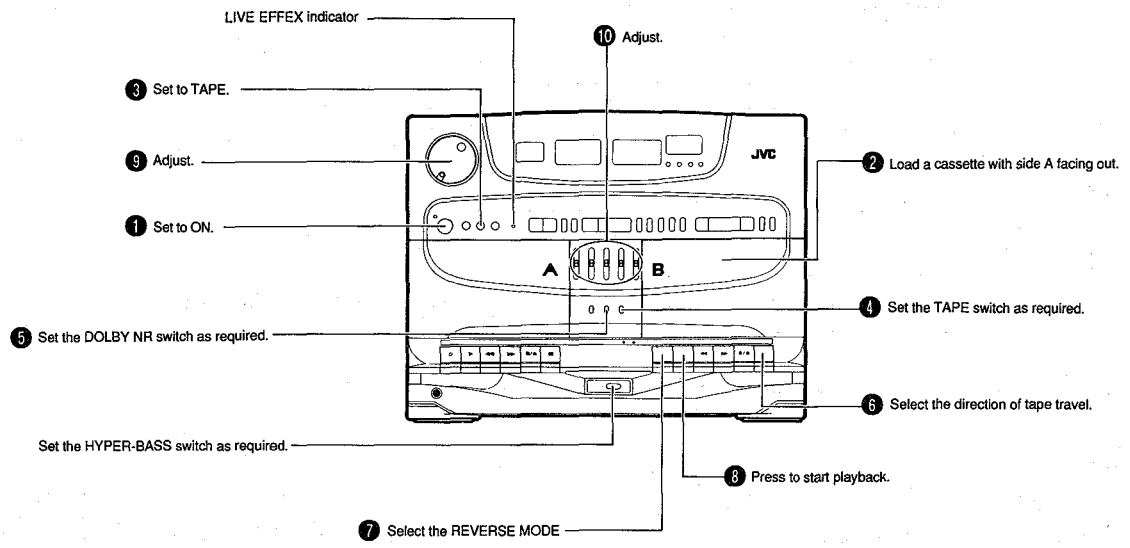

- **Repeat playback of a single tune ( ⊆ )**
  The tune being played back can be heard repeatedly.
- **Repeat playback of all the tunes ( ⊆ ALL)**
  When playing back the entire disc or programmed tunes, all the tunes or the programmed tunes can be heard repeatedly.

## Random playback (using the remote control)

When the RANDOM button is pressed, every tune in a disc is played back once, in random order.

## CASSETTE PLAYBACK

(The example shows deck B)
**Operate in order shown.**


LIVE EFFEX indicator
10 Adjust.
3 Set to TAPE.
9 Adjust.
1 Set to ON.
2 Load a cassette with side A facing out.
4 Set the TAPE switch as required.
5 Set the DOLBY NR switch as required.
6 Select the direction of tape travel.
Set the HYPER-BASS switch as required.
8 Press to start playback.
7 Select the REVERSE MODE
JVC
A
B

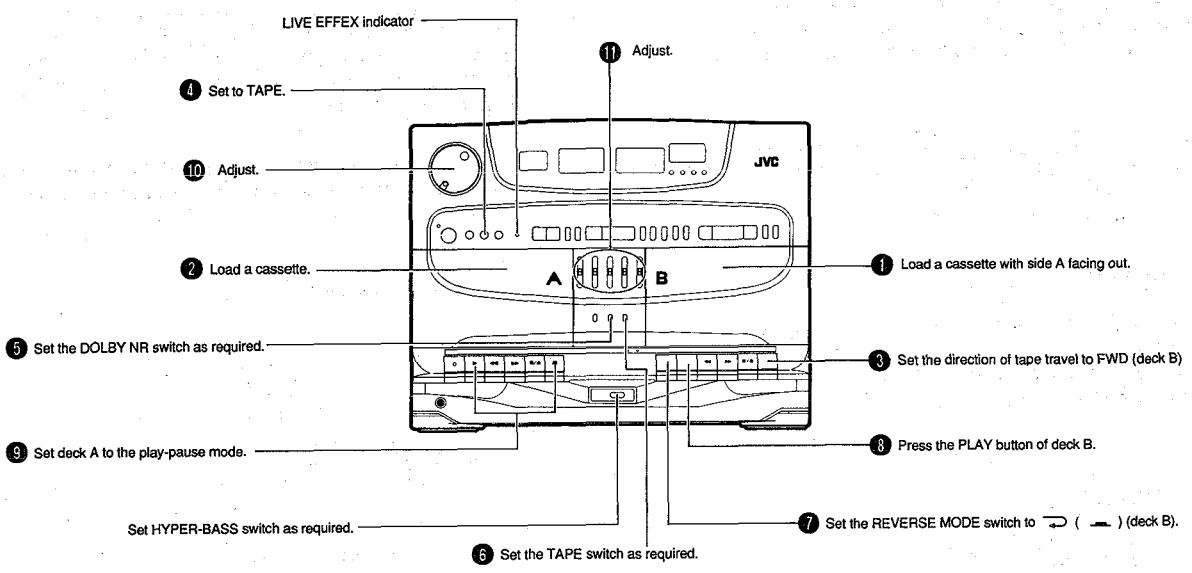
- **Playback in deck A**
  The previous procedures ❹, ❺ and ❽ also apply to deck A when a cassette is loaded in deck A. When decks A and B are simultaneously set to the play mode, only the playback sound of deck B is heard.

**Note:**

- When the power is turned off while the tape is running, cassette operation buttons which are depressed do not return to the original positions.
  Press the ■/⏏ STOP/EJECT button to stop the tape running before turning off the power.

## RELAY PLAYBACK

(From deck B to deck A)
**Operate in order shown.**


LIVE EFFEX indicator
11 Adjust.
4 Set to TAPE.
10 Adjust.
2 Load a cassette.
1 Load a cassette with side A facing out.
5 Set the DOLBY NR switch as required.
3 Set the direction of tape travel to FWD (deck B)
9 Set deck A to the play-pause mode.
8 Press the PLAY button of deck B.
Set HYPER-BASS switch as required.
7 Set the REVERSE MODE switch to ( ) (deck B).
6 Set the TAPE switch as required.
JVC
A
B

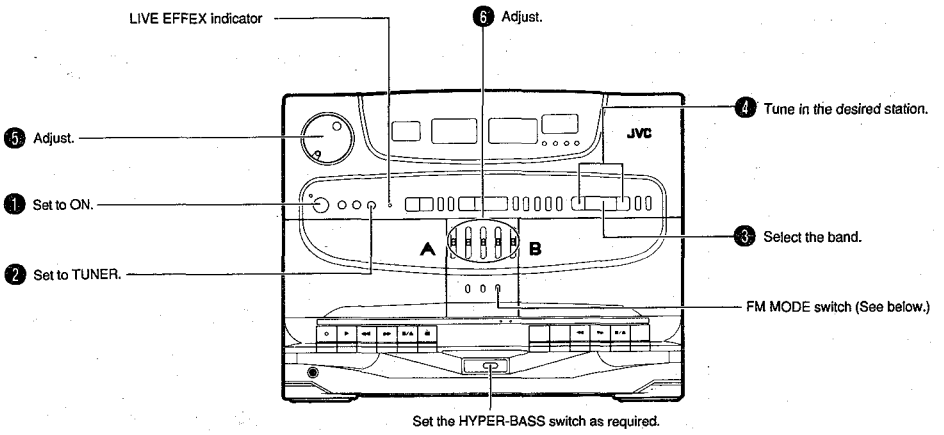
- When deck B stops, deck A's pause mode will be released and it will start playback. When deck A stops, relay playback will be released.

**Notes:**

1. Use the same type of tape in decks A and B.
2. If the REVERSE MODE of deck B is set to ( ), relay playback cannot be performed. (Continuous playback is performed in deck B.)

## RADIO RECEPTION

**Operate in order shown.**


LIVE EFFEX indicator
6 Adjust.
4 Tune in the desired station.
5 Adjust.
1 Set to ON.
3 Select the band.
2 Set to TUNER.
FM MODE switch (See below.)
Set the HYPER-BASS switch as required.

### FM MODE switch

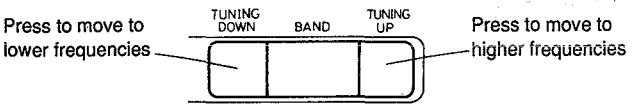
**STEREO ( ▬ ):**
*Set to this position when listening to or recording an FM stereo broadcast.*
**MONO ( ▬ ):**
Set to this position when FM stereo reception is noisy.

### Seek tuning

By pressing the UP or DOWN button for more than 1 second, the unit enters the search mode and tunes to the adjacent station broadcasting at a higher or lower frequency.

### Manual Tuning

By pressing the Tuning button, you can move up and down the frequency band. You can step through the frequency in 50 kHz units for FM, 9 kHz units for MW and 1 kHz units for LW.

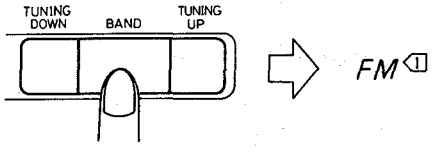



### Presetting Stations

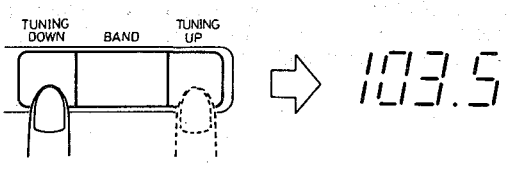
Five stations in each band (FM 1, FM 2, MW and LW) can be preset as follows:

- Example (when presetting Preset button "3" to FM station at 103.5 MHz)

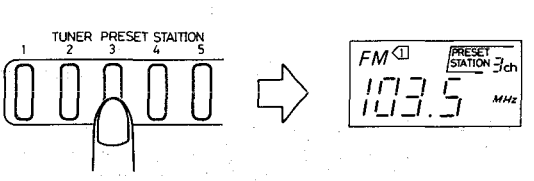
①




②




③




① Select the FM 1 band using the BAND button.
② *Tune to the desired station.*
③ Press Preset button "3" for more than 2 sec. (after 2 sec. the LCD display shows a flashing "3")

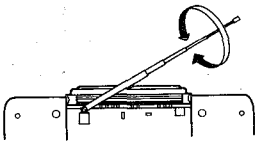
- Repeat the above procedure for each of the other four stations using a different Preset button each time.
- Follow the above procedure for the other bands (FM 2, MW and LW).

**Note:**
When the unit is used more than 30 minutes after being preset, the preset station memory will be held for approx. 24 hours after unplugging the power cord or removing the batteries. Presetting is required again when the preset stations are cancelled.

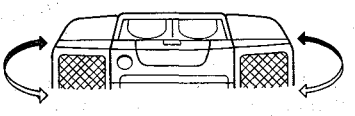
* The seek tuning, manual tuning and presetting stations can be operated using the remote control unit (see page 18.)

### Using the antennas

FM

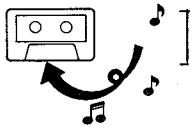


MW and LW



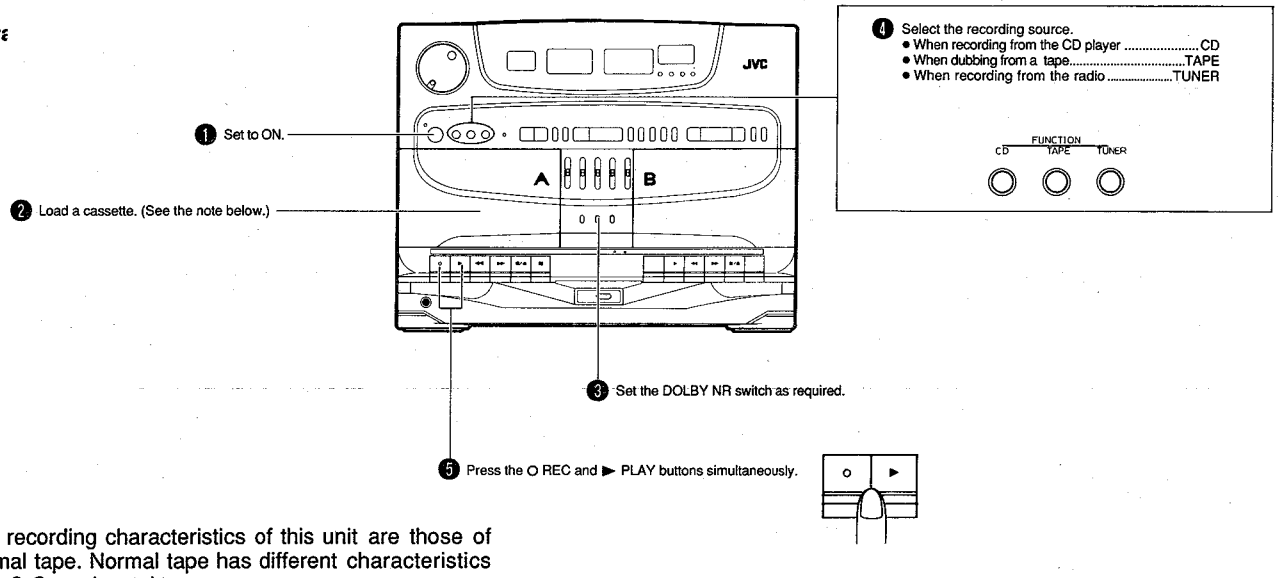
**Note:**
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb MW and LW reception.

## RECORDING (Deck A)



- In recording, the ALC circuit automatically optimizes the recording level and adjustment of the recording level is unnecessary.

**Opera**


JVC
A
B
1 Set to ON.
2 Load a cassette. (See the note below.)
3 Set the DOLBY NR switch as required.
4 Select the recording source.
• When recording from the CD player .....CD
• When dubbing from a tape.....TAPE
• When recording from the radio .....TUNER
FUNCTION
CD
TAPE
TUNER
5 Press the O REC and ▶ PLAY buttons simultaneously.

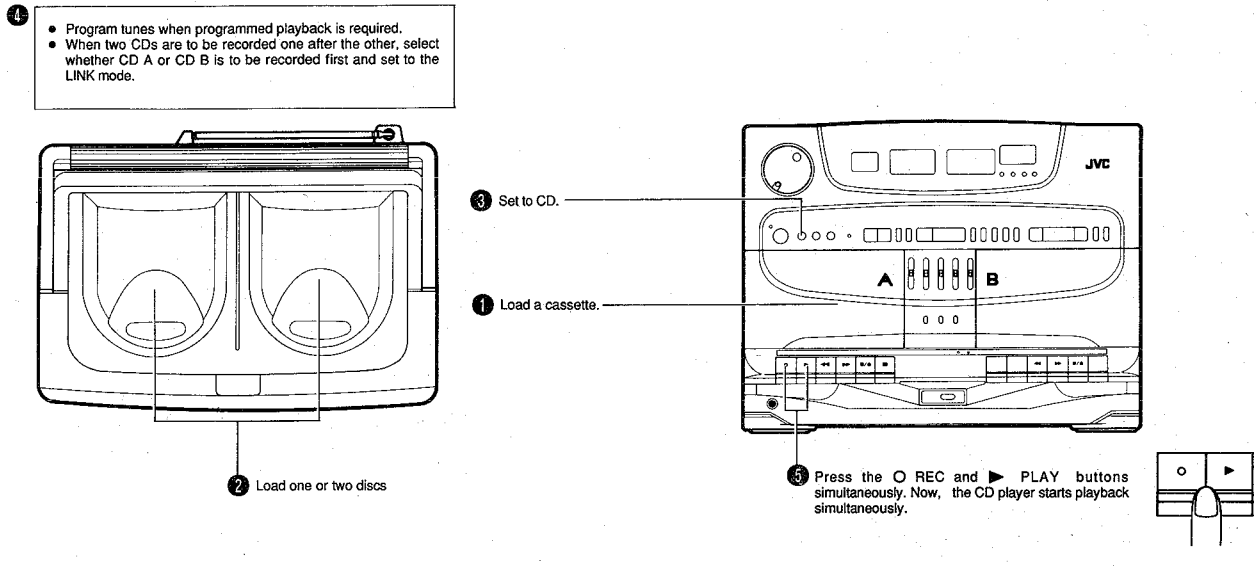
**Notes:**

1. The recording characteristics of this unit are those of normal tape. Normal tape has different characteristics from $CrO_2$ and metal tapes.
2. Do not operate any button on deck B during recording.

### Synchronized recording with the CD Player

- In this system, the CD player starts playback when deck A enters the recording mode.

**Operate in order shown.**

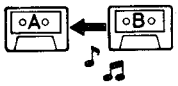

4
• Program tunes when programmed playback is required.
• When two CDs are to be recorded one after the other, select whether CD A or CD B is to be recorded first and set to the LINK mode.
3 Set to CD.
1 Load a cassette.
2 Load one or two discs
JVC
A
B
5 Press the O REC and ▶ PLAY buttons simultaneously. Now, the CD player starts playback simultaneously.

- Non-recorded sections of approx. 4 seconds are left automatically between tunes.
- When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the ■/⏏ STOP/EJECT button to stop the tape.

- **When automatic spacing between tunes is not required...**
  Perform the following after finishing the previous operation (1 – 4).

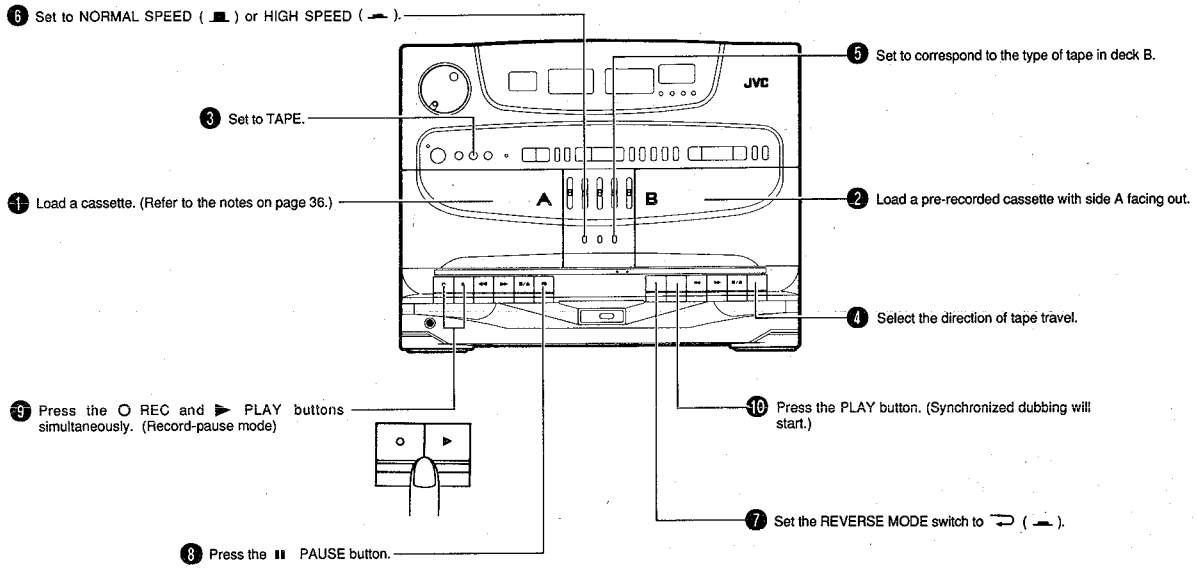
① Press the ▷II PLAY/PAUSE button of the CD player twice. The CD player enters the pause mode.
② Press the O REC and ▶ PLAY buttons simultaneously.
Now, the CD player starts playback simultaneously.

## DUBBING (SYNCHRO START DUBBING)



Normal and high-speed dubbing can be done from deck B to deck A.

**Operate in order shown.**


6 Set to NORMAL SPEED ( ) or HIGH SPEED ( ).
5 Set to correspond to the type of tape in deck B.
3 Set to TAPE.
1 Load a cassette. (Refer to the notes on page 36.)
2 Load a pre-recorded cassette with side A facing out.
4 Select the direction of tape travel.
9 Press the O REC and ▶ PLAY buttons simultaneously. (Record-pause mode)
10 Press the PLAY button. (Synchronized dubbing will start.)
7 Set the REVERSE MODE switch to ( ).
8 Press the II PAUSE button.
JVC
A
B

**Notes:**

1. Television receivers placed close to this unit may cause interference on the recorded signal when this unit is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.
2. In dubbing, the recording level is equal to the playback level of the tape being played in deck B. Noise reduction is automatically disabled during dubbing. Therefore, the copy will be an exact duplicate of the original; if the original tape is NR-encoded, the dubbed copy will also be NR-encoded. As the NR system does not affect the monitor's sound, the S.E.A. controls should be adjusted accordingly when monitoring a dubbing in which noise reduction is being performed.
3. With deck A in the record-pause mode, the II PAUSE button is released when deck B enters the stop mode.
4. Avoid switching the FUNCTION switch during dubbing.

### II PAUSE button

First of all, press the II PAUSE button. Then, press the O REC and ▶ PLAY buttons, thus entering the record-pause (standby) mode. After that re-press the II PAUSE button at the exact moment you want to start recording. This releases the tape to begin recording at a precise moment.

- Do not leave the unit in pause mode for more than a few minutes. Instead, push the ■/▲ STOP/EJECT button and turn the power off.

### BEAT CUT switch

When recording an MW or LW broadcast, beats may be produced which are not heard when listening to the broadcast. In such a case, set this switch so that the beats are eliminated, Normally set this switch to "NORM 1".

### DOLBY NR switch

- Tapes recorded using Dolby B NR must be played back through the corresponding circuit.

**Note:**

Proper sound quality will not be obtained if a different DOLBY NR switch setting is used during recording and playback.

### S.E.A. graphic equalizer system

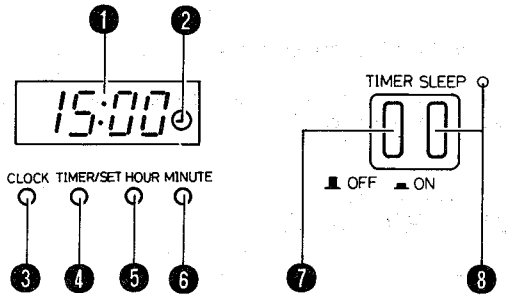
Each knob can be adjusted ±10 dB. By raising a knob towards the "+" mark, the frequency band will be emphasized and lowering a knob towards the "-" mark will de-emphasize it.
S.E.A. should be used in different ways to compensate for the various conditions in different circumstances. Try various adjustments and learn how to use S.E.A. to its best advantage.

- The S.E.A. is effective only during playback with the FUNCTION switch of the TAPE, TUNER or CD position.
- Set each control to the "0" (click) position when not compensating sound using the S.E.A.

### Erasing

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.
**To erase a tape without making a new recording...**
Follow the section "RECORDING" but in step 4, set the FUNCTION switch to TAPE then perform recording to erase the tape.

## CLOCK ADJUSTMENT



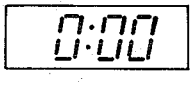

**Names of parts in the clock/time section and their functions**

1. **Display window**
2. **Timer mode indicator**
3. **CLOCK button**
   To set the time.
4. **TIMER/SET button**
   To set the timer start time.
5. **HOUR button**
   To set the hour.
6. **MINUTE button**
   To set the minutes. This button is also used to count down the sleep time.
7. **TIMER switch**
   To set the timer ON( ▂ )/OFF( ▆ ). The timer mode indicator lights when it is set to ON( ▂ ).
8. **SLEEP switch and indicator**
   To set the sleep timer and to check the remaining sleep time. The indicator lights when the sleep timer has been set.

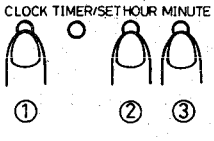
**Setting the current time**

- **To adjust "hour" and "minute" ....**

1. Connect the AC power cord; "0:00" is displayed.




2. Adjust the "hour" and "minute".



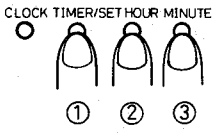

① While pressing ...
② Press.
(Each time this is pressed, the display advances by one hour.)
③ Press after hour adjustment.
(Each time this is pressed, the display advances by one minute.)

- When either the HOUR or the MINUTE button is kept pressed, the "hour" indication advances in 1-hour units and the "minute" indication advances in 5-minute units.
- **To adjust the "second" correctly ....**
  It is convenient to use a time signal from TV or radio. Press the MINUTE button when you hear the time signal while pressing the CLOCK button.

**Setting the timer**

- **Correct the current time first.**

1. Set the timer to the desired time.
   (Example: when the timer is set to 6:30.)
2. Adjust the "hours" and "minutes".

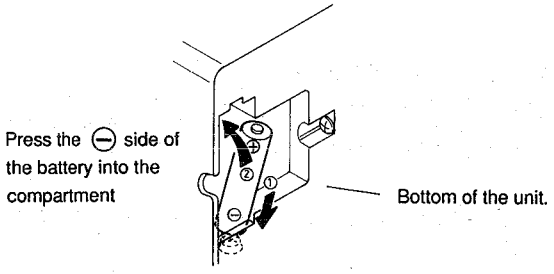



① While pressing the TIMER/SET button ....
② Set to 6:00 using the HOUR button.
③ Set to 6:30 using the MINUTE button.

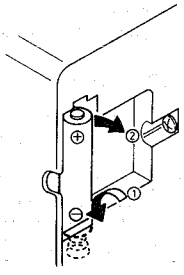
**Battery for timer/clock**

While the PC-XT7 is used with an AC power cord, the power for the timer/clock is backed up. However, when there is a power failure (or cut) or the AC power cord is disconnected, the backup power for the timer/clock is interrupted. In such a case, battery use is recommended.

- **Battery loading**
  Load an "R6" size battery (optional) into the battery compartment.




- **Battery removal**
  Remove the battery by lifting up the ⊕ side while pressing the ⊖ side against compartment.



**Note:**

Replace the battery about every year to protect the PC-XT7 from possible battery leakage.

## TIMER OPERATIONS

**Timer recording**

- Correct the current time first.
  - Make sure that the erase protection tabs of the cassette are not broken off.

**Operations**

1. Set the POWER switch to ON.
2. Set the timer to the desired time. (Refer to "Setting the timer" on page 45.)
   - Set the timer about a minute before the broadcast to be recorded is to start.
3. Load a cassette in deck A.
   - Set the DOLBY NR switch as required. (Refer to page 41.)
4. Set the FUNCTION switch to TUNER.
5. Tune to the station to be recorded. (Refer to page 33.)
6. Set the TIMER switch to ON ( ▂ ).
7. Set the POWER switch to STANDBY.
8. Press the O REC and ▶ PLAY buttons.

↓

**Setting for timer recording is completed.**

- Timer recording will start at the preset time and the power will be switched off after 64 minutes. However, if the tape is longer than 64 minutes, power is switched off when the tape stops.

**Things you should know**

Once the time has been set, it is stored in memory. Resetting is not required if you want to make a timer recording at the same time on the following day.

**Note:**

When not using the timer, be sure to set the TIMER switch to OFF( ▁ ).

**Timer playback**

- Timer playback of a tape, broadcast or compact disc is possible.

**Operations**

1. Set the POWER switch to ON.
2. Set the timer to the desired time. (Refer to "Setting the timer" on page 45.)
3. Select the FUNCTION switch as required.

| Source sound | Function switch | Operation |
|---|---|---|
| Deck | TAPE | Load a cassette in deck A*, set the Dolby NR switch and TAPE switch as required and adjust the volume. |
| Radio | TUNER | Tune to the required station and adjust the volume. |
| CD | CD | Load the required disc** and adjust the volume. |

* Use deck A. If deck B is used, the PLAY button may not return to its original position when the power is switched off with some lengths of tape, even when the REVERSE MODE switch is set to ⇄.

** When discs are loaded into both CD A and B, timer playback will start with the CD mechanism used last even when CD A or B is selected using the CD A/B select button.

4. Set the TIMER switch to ON( ▂ ).
5. Set the POWER switch to STANDBY.
   (Press the PLAY button to listen to a tape.)

↓

**Setting for timer playback is completed.**

- Timer playback will start at the preset time and the power will be switched off after 64 minutes.

## SLEEP OPERATIONS

- Use if you want to fall asleep while listening to a tape, broadcast or compact disc.

**Operations**

### A. To fall asleep while listening to a tape ...

① Set the POWER switch to ON.
② Load the required cassette in deck A.
③ Set the FUNCTION switch to TAPE.
- Set the Dolby NR switch and TAPE switch as required. (Refer to page 31.)

④ Set the SLEEP switch to ON.
⑤ Press the PLAY button.

- The power will be switched off after 64 minutes.

### B. To fall asleep while listening to a broadcast or compact disc.

① Set the POWER switch to ON.
② Set the FUNCTION switch to TUNER or CD to listen to a broadcast or compact disc and adjust the volume.
③ Set the SLEEP switch to ON.

- The power will be switched off in 64 minutes after starting the radio or CD.

- **To set to a sleep time of less than 64 minutes**
  ① While pressing the SLEEP switch ....
  ② Press the MINUTE button. Each time this button is pressed, the sleep time is counted down by one minute. If the button is kept depressed, the sleep time is counted down in 5-minute units.)

- **To cancel the sleep operation**
  Set the POWER switch to STANDBY to switch the power off.

### C. To fall asleep while listening to a broadcast or compact disc and performing timer playback the following morning.

Set the time that "timer playback" is required to start in the morning, select the required source (radio or CD), then set the SLEEP switch and the TIMER switch to ON ( ▂ ). With the above operations, the sleep timer will operate at night and timer playback will be performed the following morning.

**Notes:**

1. If the sleep timer operation is in progress, and a second timer operation (playback, for example) is activated during such sleep timer operation, power switches off 64 minutes after the second timer operation begins.
2. When the time set on the timer is the same as the sleep-off time, PC-XT7 operation stops at the sleep-off time and timer playback is not performed.

# 1 Location of Main Parts

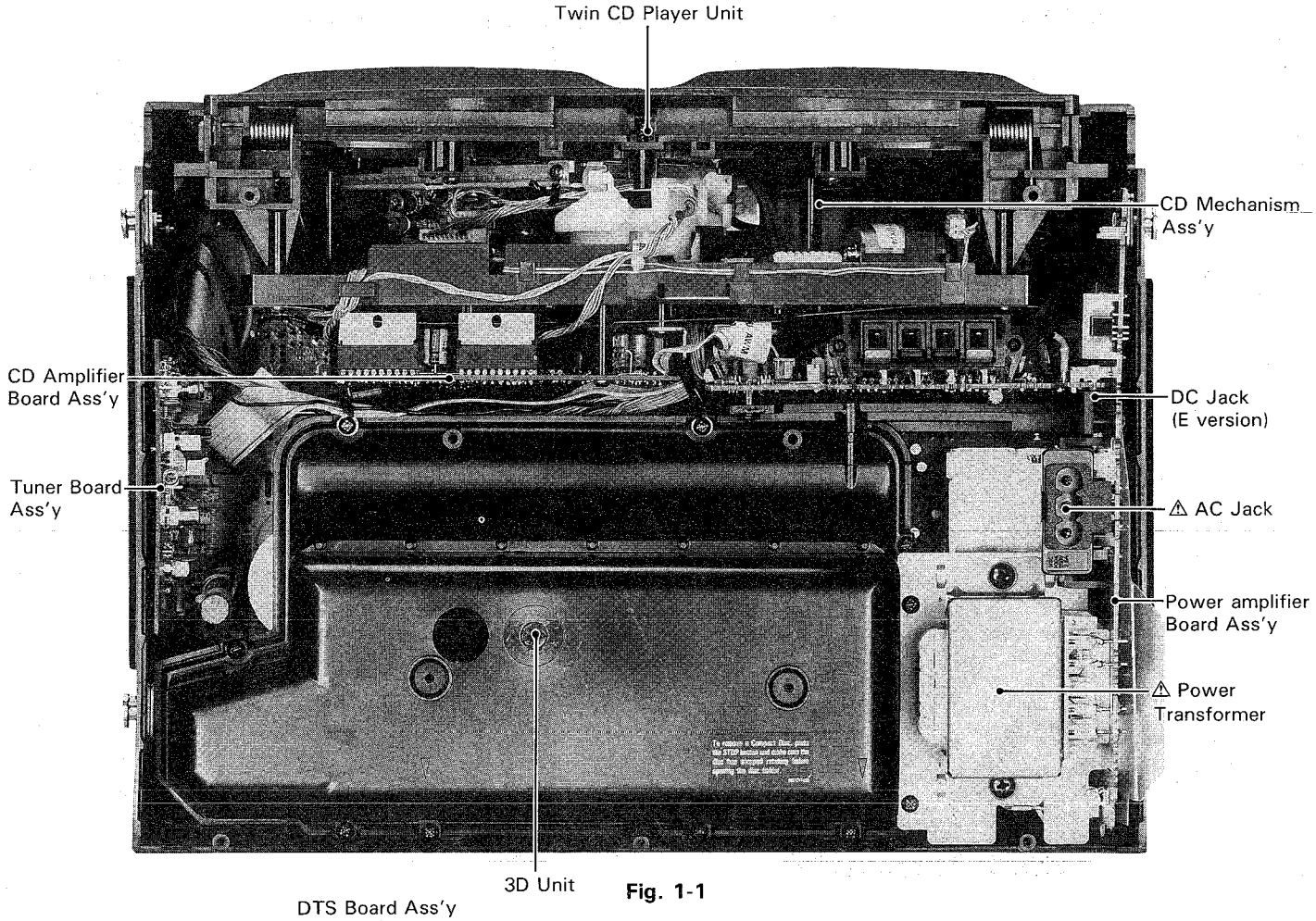



Fig. 1-1

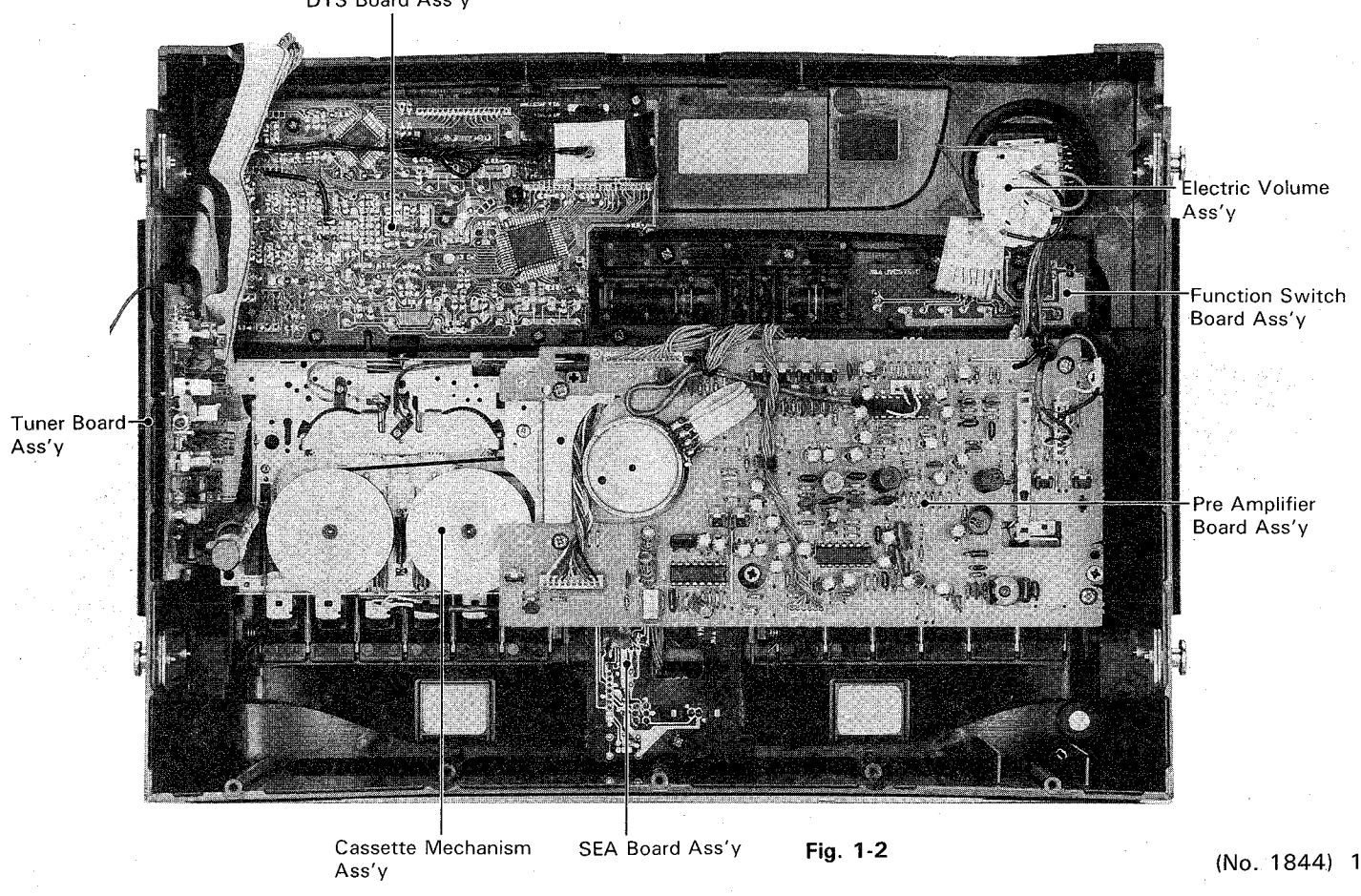



Fig. 1-2

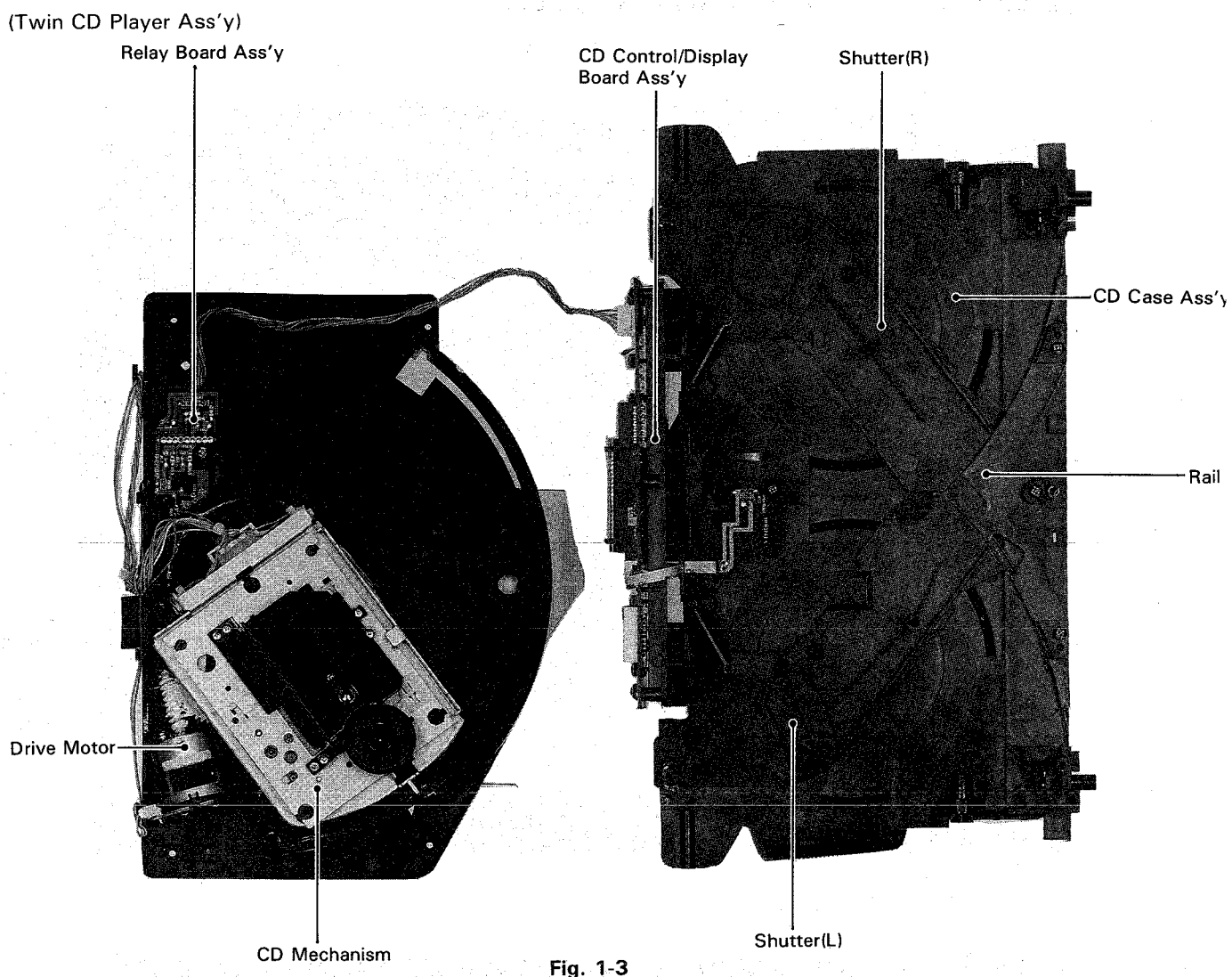

(Twin CD Player Ass'y)
Relay Board Ass'y
CD Control/Display
Board Ass'y
Shutter(R)
CD Case Ass'y
Rail
Drive Motor
CD Mechanism
Shutter(L)

Fig. 1-3

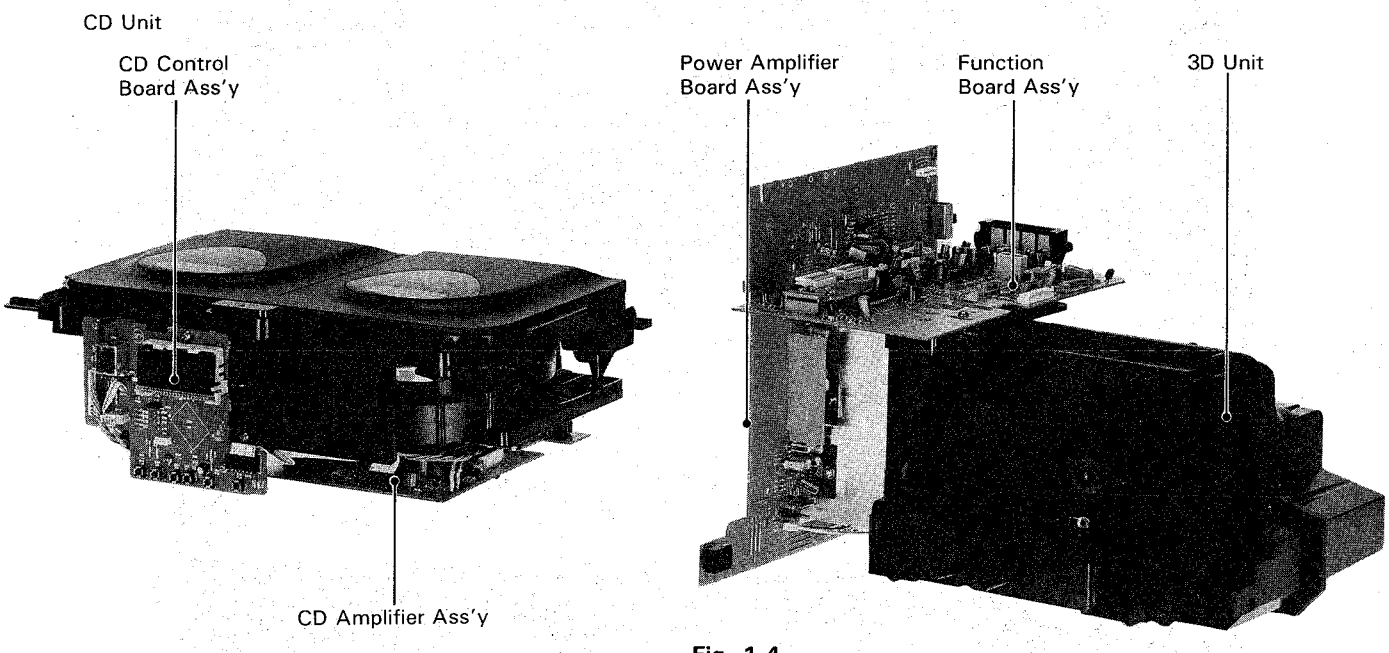

CD Unit
CD Control
Board Ass'y
CD Amplifier Ass'y
Power Amplifier
Board Ass'y
Function
Board Ass'y
3D Unit

Fig. 1-4

# 2 Removal of Main Parts/Exploded View and Parts List

<Enclosure Section>

BLOCK NO. M1MM

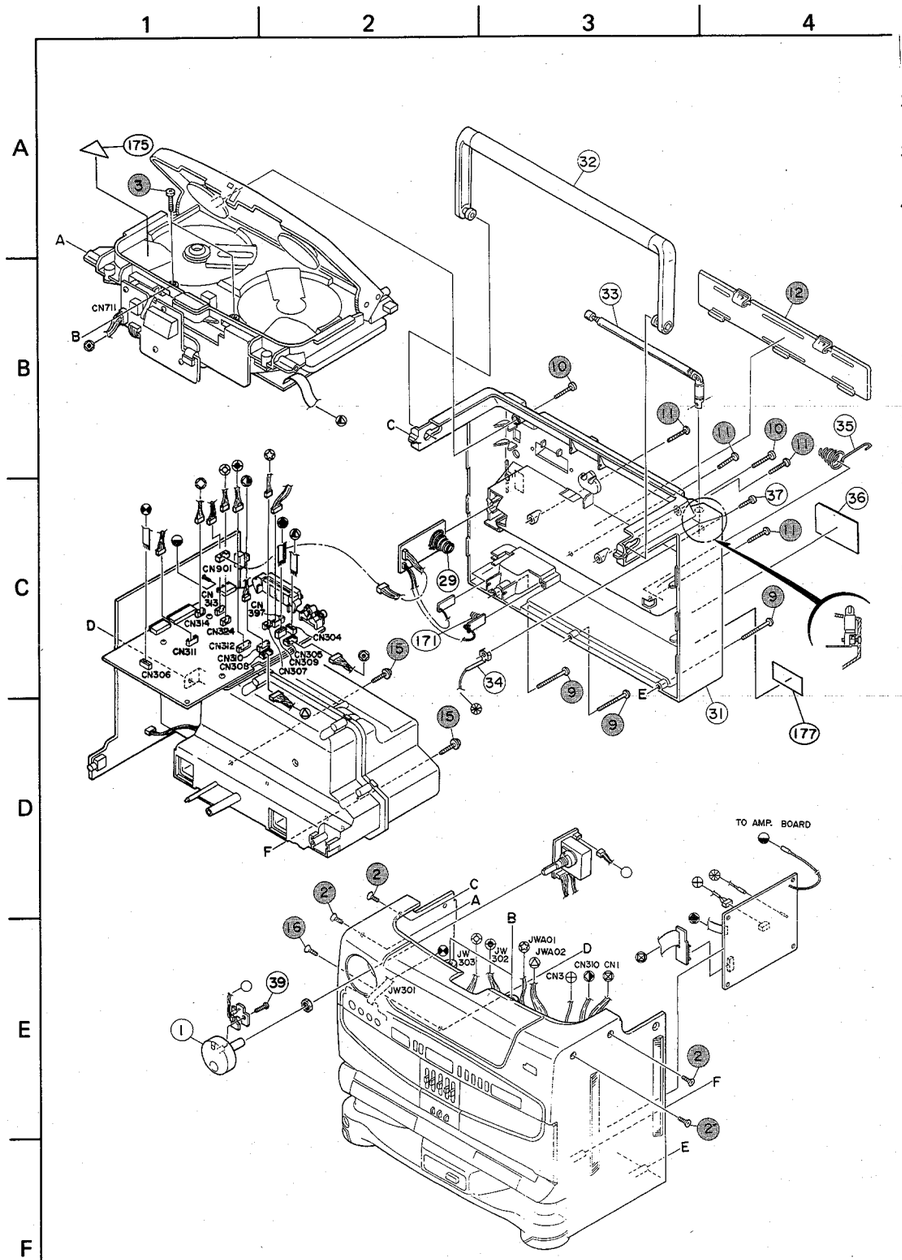



Fig. 2-1

## ■ Removing Manner of Enclosure Assembly

### ■ Rear Cabinet

1. Take out the battery cover (12) from the back of rear cabinet.
2. Remove nine screws ( (9) ×3, (10) ×2, (11) ×4) retaining the rear cabinet from backward.
3. Remove two screws (2) retaining the rear cabinet from both side of front cabinet.
4. Remove the rear cabinet assembly, and then pull out the antenna wire from the TP1 of tuner board ass'y, and take out the battery connector CN901 from power amp. board ass'y.

### ■ Twin CD Unit

1. Remove the rear cabinet.
2. Push the CD eject button and open the CD door.
3. Remove two screws (3) retaining the twin CD unit from top side.
4. Remove two screws (2') retaining the twin CD unit from both side of front cabinet.
5. Pull out the 6 PIN flat cable (from CD Amp. Board Ass'y) from the connector CN304 on the Function Board Ass'y.
6. Pull out the twin CD unit from the front cabinet assembly.
7. Pull out the 11 PIN connector CN305 (from CD control board ass'y) on the Function Board.

### ■ 3D Unit (with Function and Power Amp. Board Ass'y)

1. Remove the rear cabinet and twin CD unit.
2. Remove a screw (16) retaining the power transformer bracket from left side of front cabinet.
3. Remove two screws (15) retaining the 3D unit at bottom side.
4. Disconnect wiring connectors on function board ass'y.
   a) Pull out CN 316 from function switch board ass'y.
   b) Pull out CN314 from volume board ass'y.
   c) Pull out CN307 and CN308 from preamp board ass'y.
   d) Pull out CN312 and CN313 from SEA board ass'y.
   e) Pull out CN310 from D.T.S. board ass'y.
   f) Pull out CN309 from tuner board ass'y.
   g) Pull out earth wire to amplifier board ass'y from tuner board ass'y.

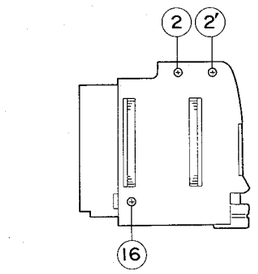



Fig. 2-2

### ■ Tuner Board Ass'y

1. Remove the rear cabinet and twin CD unit.
2. Disengage the wire dressing. Then, pull out the tuner board ass'y.
   (When the D.T.S. board ass'y has been removed from the front cabinet in advance, the tuner board ass'y can be pulled out easily without removing the connector.)

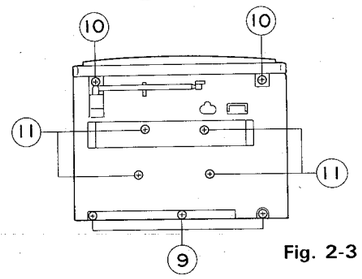



Fig. 2-3

### ■ Volume Ass'y

1. Pull out the volume knob.
2. Remove the nut from the volume shaft.
3. Remove the volume ass'y backward.

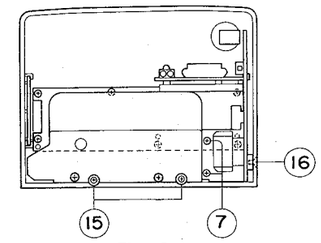
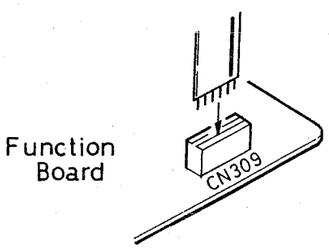



Fig. 2-4

### ■ Note




## • Enclosure Assembly Parts List

BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | 1 | VXL4389-001 | VOLUME KNOB | | 1 | |
| | 2 | SSSF3012M | T. SCREW | F.CABI SIDE | 2 | |
| | 2' | SSSF3012M | T. SCREW | F CABI+CD CASE | 2 | |
| | 3 | SDSF3012M | SCREW | CD CASE+F CABI | 2 | |
| | 9 | SBSF3035Z | SCREW | FOR REAR CABI. | 3 | |
| | 10 | SBSF3020Z | SCREW | REAR UPPER SIDE | 2 | |
| | 11 | SBSF3012Z | SCREW | REAR LOWER SIDE | 4 | |
| | 12 | VJC2016-020 | BATTERY COVER | | 1 | |
| | 15 | SBSF3020Z | SCREW | FOR 3D ASS'Y | 2 | |
| | 16 | SSST3006M | SCREW | FRONT+T.BRACKET | 1 | |
| | 29 | VYH5483-001 | BATTERY SPRING | SISE R20 | 1 | |
| | 31 | VJG1022-114 | REAR CABINET | | 1 | E |
| | | VJG1022-113 | REAR CABI | | 1 | B |
| | 32 | VJH4121-00A | HANDLE ASS'Y | | 1 | |
| | 33 | VJA3006-00E | T ANTENNA ASS'Y | | 1 | |
| | 34 | VYH5012-004 | TERMINAL LUG | FOR ANTENNA | 1 | |
| | 35 | VYH5657-001 | BATTERY SPRING | SISE R20 | 1 | |
| | 36 | VYN7059-005T | NAME PLATE | | 1 | E |
| ⚠ | | VYN7059-002T | NAME PLATE | | 1 | B |
| | 37 | SDSP3012N | SCREW | FOR ANTENNA | 1 | |
| | 39 | SBSF2008Z | SCREW | FOR VOLUME LED | 1 | |
| | 171 | VYH7199-001 | BATTERY SPRING | SISE R6 | 1 | |
| | 175 | E71541-001 | E.I.LASER MARK | | 1 | |
| | 177 | VND4221-001 | CLASS 1 LABEL | | 1 | E |

■ <Twin CD Section>

BLOCK NO. M2MM

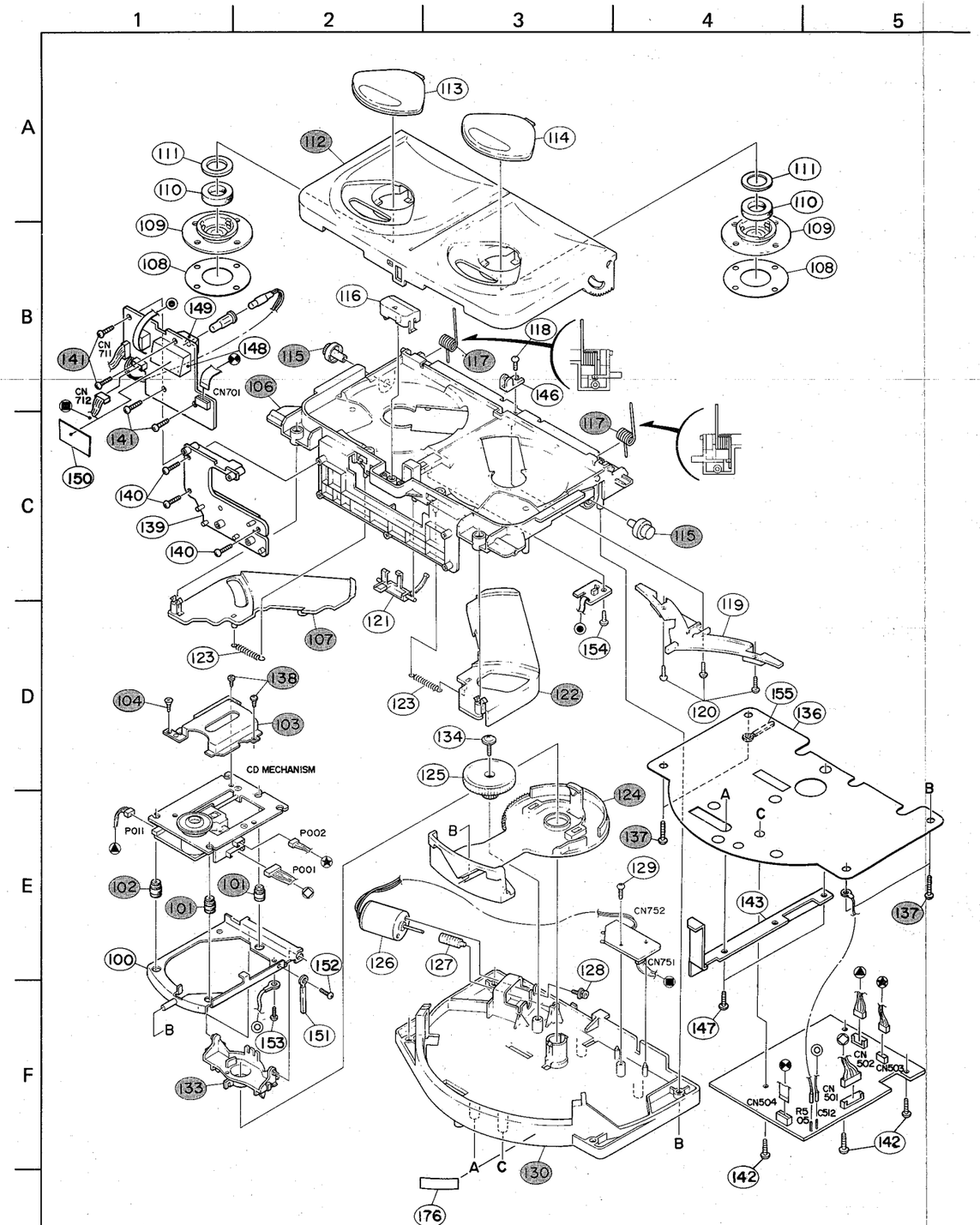



Fig. 2-5

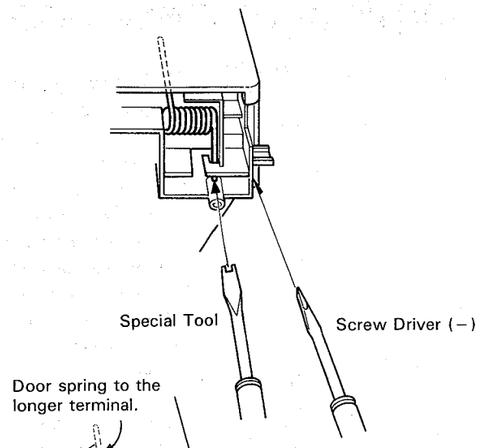

Special Tool
Screw Driver (−)
Door spring to the longer terminal.
Remove the door shaft.
To remove the door, insert the driver to this position.
Let the (door spring) slide counterclockwise while pushing the spring with a tool after holding the door spring. Then, the spring can be removed.

Fig. 2-6

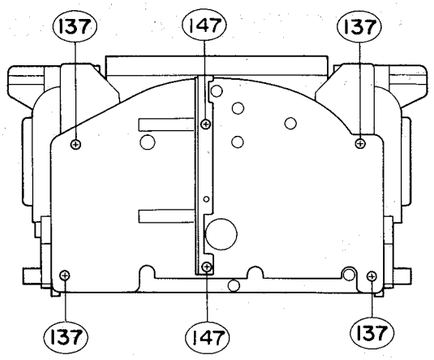


Fig. 2-7

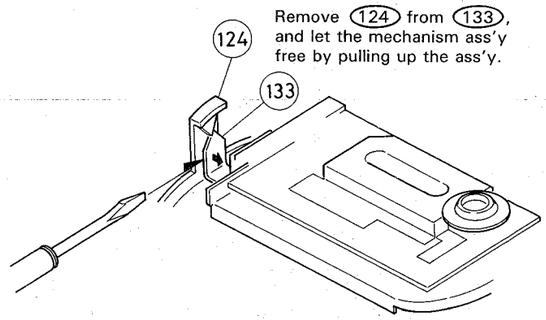



Fig. 2-8

## ■ Removing Manner of Twin CD Assembly

### ■ CD Door Assembly

1. Remove the door spring (117) provided on both sides behind the door, while holding it with a special tool, or (−) screw driver, etc. after pressing the spring section with a finger so that it will not come out.
2. Open the CD door and remove the arm section on both sides from the shaft (Remove the combination (assembly) by inserting screw driver, etc. between the CD case and CD door).
   1) At the time of reassembly, insert the longer CD door spring (117) at first, and hook the shorter spring on the CD case side after mounting the CD door (112) on the supporting point of the CD case (106) as indicated in the diagram.
   2) With a cotton swab or other applicator, coast a small amount of grease (G501) over the portion of the CD door spring (117) which will be rubbed.
3. Pull out the door damper gear (115).

### ■ CD Mechanism

1. Remove four screws (137) retaining the main chassis (130) to CD case (106).
2. Pull out the CN712 on CD control board.
3. Raise the main chassis from the rear side. At the time of assembly, slide the CD shutter (107) or (122) on the mechanism side to outside so that the shutter will not come into contact with the CD mechanism sub chassis side.
4. • Under this state, it is possible to change the pickup unit.
   • To disassemble the (mechanism) into the CD mechanism unit, remove the three rubber suspensions (101) and (102) from the mechanism chassis.
   • To remove the mechanism ass'y together with the sub chassis, remove the support arm (133) from the round cam (124). Then, it is possible to remove the assembly which the support arm can be dismounted (Remove the wires, etc. as necessary, and restore these into the initial conditions according to the same method at the time of assembly).

### ■ CD Amplifier Board Assembly

Remove the three screws (142) retaining the CD amplifier board ass'y.

### ■ CD Control Board Assembly

Remove the four screws (141) retaining the CD control board ass'y.

### * Change of Pickup

1) Perform the work up to the step 3) of the CD mechanism.
2) Remove the three screws (104) and (138) retaining the pickup cover (103).
3) Remove the screw clamping the pickup unit shaft.
4) Dismount the connector to the pickup unit.
5) Remove the shaft from the pickup unit.

## • Twin CD Assembly Parts List

BLOCK NO. M2MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | 100 | VKM3553-00B | SUB CHAS.ASSY | | 1 | |
| | 101 | E75609-001 | INSULATOR | FOR CD MECHA. | 3 | |
| | 102 | E75609-002 | INSULATOR | FOR CD MECHA | 1 | |
| | 103 | VJD5359-003 | PICK COVER | | 1 | |
| | 104 | SSST2006Z | SCREW | FOR PICK COVER | 1 | |
| | 106 | VJD1155-103UL | CD CASE | MIPS | 1 | |
| | 107 | VKS2220-001 | SHUTTER(L) | FOR CD CASE L | 1 | |
| | 108 | VYH7315-002 | PAD | FOR CD CLAMPER | 2 | |
| | 109 | VKS3547-001 | CLAMPER | | 2 | |
| | 110 | VYH7313-001 | MAGNET | FOR CD CLAMPER | 2 | |
| | 111 | VYH7314-001 | YOKE | FOR CD CLAMPER | 2 | |
| | 112 | VJT1040-002SS | CD DOOR | | 1 | |
| | 113 | VJD5360-011SS | CD LENS | | 1 | |
| | 114 | VJD5360-012SS | CD LENS | | 1 | |
| | 115 | VYH4769-002 | GEAR | FOR DAMPER | 2 | |
| | 116 | VXP5061-001 | EJECT BUTTON | FOR CD EJECT | 1 | |
| | 117 | VKW4977-004 | CD DOOR SPRING | | 2 | |
| | 118 | SBSF3010M | T.SCREW | CENTER FULCRUM | 1 | |
| | 119 | VKS2219-101 | RAIL | CD CASE | 1 | |
| | 120 | SBSF3010Z | SCREW | RAIL + CD CASE | 3 | |
| | 121 | VKS5376-001 | LOCK ARM | | 1 | |
| | 122 | VKS2220-002 | SHUTTER(R) | FOR CD CASE R | 1 | |
| | 123 | VKW4984-001 | TENSION SPRING | FOR SHUTTER L/R | 2 | |
| | 124 | VKS3545-002 | ROUND CAM | | 1 | |
| | 125 | VKS5374-001 | DRIVE GEAR | FOR CD A/B SELE | 1 | |
| | 126 | MXN-13FB12F | DC MOTOR ASS'Y | FOR CD A/B SELE | 1 | |
| | 127 | VKS5373-002 | WORM GEAR | FOR CD A/B SELE | 1 | |
| | 128 | DPSP3005Z | SCREW | FOR DC MOTOR | 1 | |
| | 129 | SBSF3008Z | SCREW | FOR SENSOR BOAR | 1 | |
| | 130 | VKS1123-003 | MAIN CHASSIS | | 1 | |
| | 133 | VKS3546-001 | SUPPORT ARM | | 1 | |
| | 134 | E65923-003 | T.SCREW | FOR DRIVE GEAR | 1 | |
| | 136 | VYH3717-002 | SHIELD | FOR CD BOARD | 1 | |
| | 137 | GBSF3016Z | SCREW | CD CASE+M.CHASS | 4 | |
| | 138 | SDST2006Z | TAPPING SCREW | FOR PICK COVER | 2 | |
| | 139 | VYH3676-001 | CONTROL CHASSIS | | 1 | |
| | 140 | SBSF3012Z | SCREW | CD CASE+CHASSIS | 3 | |
| | 141 | SBSF3012Z | SCREW | CD BOARD+CASE | 4 | |
| | 142 | SBSF3012Z | SCREW | CD BOARD+CASE | 3 | |
| | 143 | VYH7506-001 | BRACKET | CD CASE | 1 | |
| | 146 | VKS2219-002 | CENTER FULCRUM | | 1 | |
| | 147 | SBSF3010Z | SCREW | CD CASE+BRACKET | 2 | |
| | 148 | VYH7497-001 | CASE A | | 1 | |
| | 149 | VYH7498-001 | CASE B | | 1 | |
| | 150 | VYH7508-001 | SHEET (CD) | | 1 | |
| | 151 | VKZ4001-009 | WIRE HOLDER | FOR CD MECHA. | 1 | |
| | 152 | SDST2604Z | SCREW | FOR CD W.HOLDER | 1 | |
| | 153 | SDST2604Z | SCREW | CD CHASSIS+GND | 1 | |
| | 154 | SBSF3010Z | SCREW | FOR EJECT | 1 | |
| | 155 | VKZ4001-110 | WIRE CLAMP | | 1 | |
| | 176 | VND4220-001 | LASER CAUTION | | 1 | E |

## <Front Cabinet Section>

BLOCK NO. M3MM

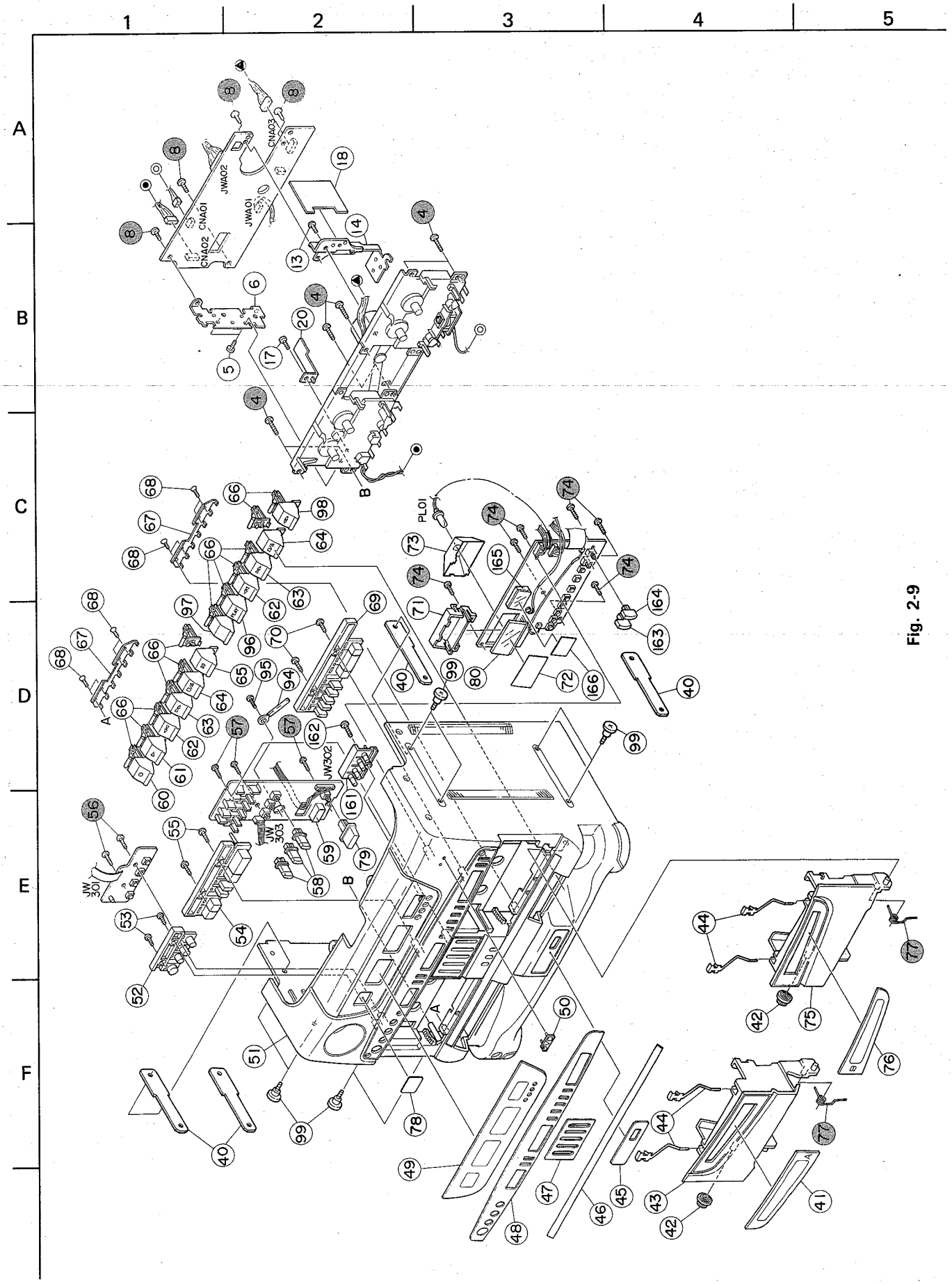



Fig. 2-9

## ■ Removing Manner of Front Cabinet Assembly

### ■ Preamp. Board Ass'y

1. Remove the rear cabinet, Twin CD unit, and 3D unit.
2. Disconnect connectors CNA01, CNA02, and CNA03 from Cassette Mechanism Ass'y.
   CNA01: Playback head wire.
   CNA02: Rec/Playback head wire.
   CNA03: Leaf switch wire.
3. Unsolder the capstan motor terminal.
4. Remove four screws (8) retaining the preamp. board ass'y

### ■ Cassette Mechanism Ass'y

1. Remove six screws (4) retaining the cassette mechanism ass'y to front cabinet ass'y.
2. Open the cassette doors and pull out the mechanism ass'y

### ■ D.T.S. (Digital Tuning System) Board Assembly

1. Remove the rear cabinet and twin CD unit.
2. Remove six screws (74) retaining the D.T.S. board assembly to front cabinet ass'y.
3. After removing the D.T.S. board ass'y, remove the tunes board ass'y, if necessary.
   Remove the D.T.S. board ass'y, and the tuner board as necessary.

### ■ SEA Board Ass'y

1. Remove the rear cabinet, Twin CD unit, 3D unit and cassette mechanism ass'y (with preamp. board ass'y)
2. Remove three screws (57) retaining the SEA board ass'y.

### ■ Function Switch Board Ass'y

1. Remove two screws (56) retaining the function board ass'y.

### ■ Button, etc.

1. Attach the respective buttons and button brackets, and remove the screws.

### ■ Cassette holder (door)

1. Remove the rear cabinet, Twin CD unit, 3D unit and cassette mechanism ass'y.
2. Remove the cassette holder springs (77) .
3. To disengage respective shafts of door holder arms [1] and [3] from the mechanism, insert a screwdriver between them and turn it as illustrated or use it as a lever of fulcrum.

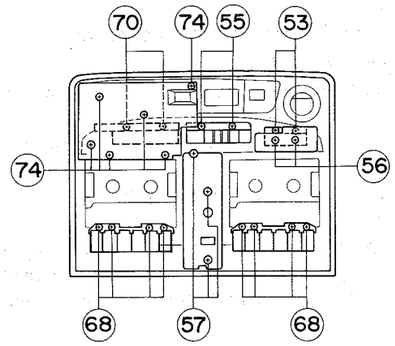



Fig. 2-10

**How to Engage Cassette Holder Spring**

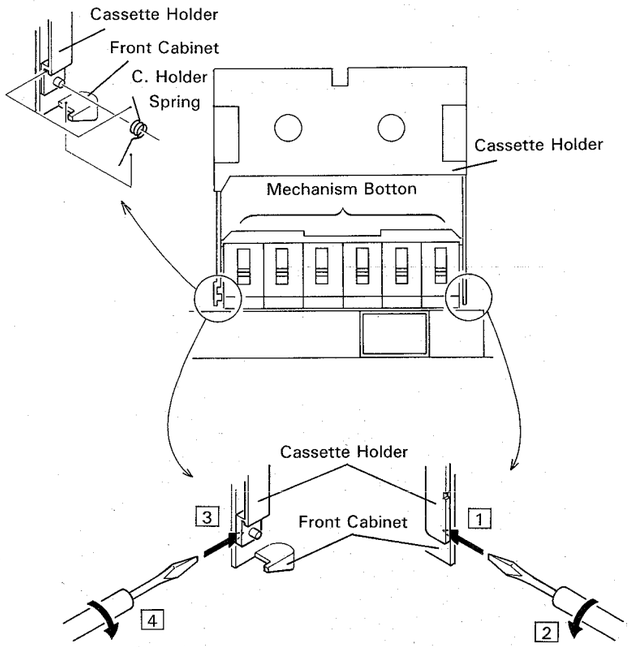



Fig. 2-11

## • Front Cabinet Assembly Parts List

BLOCK NO. M3MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | 4 | SSSF3012Z | SCREW | FRONT+C-MECHA. | 6 | |
| | 5 | SPST2606Z | SCREW | FOR PCB BRACKET | 1 | |
| | 6 | VYH7530-001 | PCB BRACKET (L) | | 1 | |
| | 8 | SBST3006Z | SCREW | FOR PRIAMP.BOAR | 4 | |
| | 13 | SPST2006Z | SCREW | FOR PCB BRACKET | 2 | |
| | 14 | VYH7504-001 | PCB BRACKET (R) | | 1 | |
| | 17 | SDST2003Z | SCREW | FOR REC. SPRING | 1 | |
| | 18 | VYH7629-001 | SUPPORT BRACKET | FOR PCB BRACKET | 1 | |
| | 20 | VYH7507-002 | REC.SPRING | T.BKT+TRANS. | 1 | |
| | 40 | VYH7516-002 | JOINT BRACKET | FOR SPEAKER | 4 | |
| | 41 | VJT3319-005 | CASSETTE LENS(A | DOOR A | 1 | |
| | 42 | VYH5601-001 | IDLER GEAR | CASSETTE DOOR | 2 | |
| | 43 | VJT2276-003 | CASSETTE DOOR | DOOR A | 1 | |
| | 44 | VKY4180-001 | CASSETTE SPRING | | 4 | |
| | 45 | VJD5366-002 | 3D LENS | | 1 | |
| | 46 | VJD3885-004 | CONTROL PLATE | FOR CASSETTE | 1 | |
| | 47 | VJD5367-002 | CENTER LENS | FOR ANTE.+REAR | 1 | |
| | 48 | VJD3896-004 | FUNCTION PLATE | | 1 | |
| | 49 | VJD3895-001 | OPERATION PLATE | | 1 | |
| | 50 | VJD4027-001 | JVC MARK | | 1 | |
| | 51 | VJG1021-122 | FRONT CABINET | | 1 | |
| | 52 | VXP3453-001 | SELECT BUTTON | | 1 | |
| | 53 | SBSF3010Z | SCREW | FUNCTION BUTTON | 2 | |
| | 54 | VXP3457-001 | CD BUTTON | | 1 | |
| | 55 | SBSF3010Z | SCREW | FOR CD BUTTON | 2 | |
| | 56 | SBSF2608Z | SCREW | FNCTN POARD | 2 | |
| | 57 | SBSF3010Z | SCREW | FOR SEA BOARD | 3 | |
| | 58 | VXP5064-001 | PUSH BUTTON | DOLBY/TAPE/DUB | 3 | |
| | 59 | VYH7544-001 | L.E.D.HOLDER | FOR 3D LED | 1 | |
| | 60 | VXP3348-101 | MECHA BUTTON | FOR REC | 1 | |
| | 61 | VXP3348-103 | MECHA BUTTON | FOR PLAY DECK A | 1 | |
| | 62 | VXP3348-104 | MECHA BUTTON | FOR REW | 2 | |
| | 63 | VXP3348-105 | MECHA BUTTON | FOR FF | 2 | |
| | 64 | VXP3348-106 | MECHA BUTTON | FOR STOP/EJECT | 2 | |
| | 65 | VXP3348-107 | MECHA BUTTON | FOR PAUSE | 1 | |
| | 66 | VKS4843-002 | BUTTON LEVER | FOR CASSETTE B. | 12 | |
| | 67 | VKL6107-002 | BUTTON BRACKET | FOR CASSETTE B. | 2 | |
| | 68 | SSSF2606Z | SCREW | BUTTON BRACKET | 8 | |
| | 69 | VXP3458-003 | TUNER BUTTON | | 1 | |
| | 70 | SBSF3010Z | SCREW | TUNER BUTTON | 2 | |
| | 71 | VYH7499-001 | CASE C | | 1 | |
| | 72 | VYH7074-001 | SHEET | | 1 | |
| | 73 | VYH7500-001 | CASE D | | 1 | |
| | 74 | SBSF2608Z | SCREW | FOR DTS BOARD | 6 | |
| | 75 | VJT2276-005 | CASSETTE DOOR(B | DOOR B | 1 | |
| | 76 | VJT3319-006 | CASSETTE LENS(B | DOOR B | 1 | |
| | 77 | VYH7214-002 | DOOR SPRING | | 2 | |
| | 78 | VYTT489-002 | FILTER | FOR REMOTE | 1 | |
| | 79 | VXP5065-001 | PUSH BUTTON | FOR 3D | 1 | |
| | 80 | VGL1107-001 | LCD | LCD | 1 | |
| | 94 | VKZ4001-110 | WIRE CLAMP | FOR SEA BOARD | 1 | |
| | 95 | SBSF3010Z | SCREW | FOR WIRE CLAMP | 1 | |
| | 96 | VXP3348-102 | MECHA BUTTON | FOR PLAY DECK B | 1 | |
| | 97 | VXP3348-108 | MECHA BUTTON | FOR REVERSE MOD | 1 | |
| | 98 | VXP3348-109 | MECHA BUTTON | FOR DIRECTION | 1 | |
| | 99 | VKZ4179-003 | SPECIAL SCREW | FOR SPEAKER | 8 | |
| | 161 | VXP3459-001 | TIMER BUTTON | | 1 | |
| | 162 | SBSF3010Z | SCREW | TIMER BUTTON | 1 | |
| | 163 | VXP5073-001 | PUSH BUTTON | FOR TIMER | 1 | |
| | 164 | VXP5073-002 | PUSH BUTTON | FOR SLEEP | 1 | |
| | 165 | VYH7501-001 | CASE E | | 1 | |
| | 166 | VYH7645-001 | SHEET | | 1 | |
| | 172 | VYH7671-001 | SHEILD | | 1 | |

## <3D Section>

BLOCK NO. M4MM

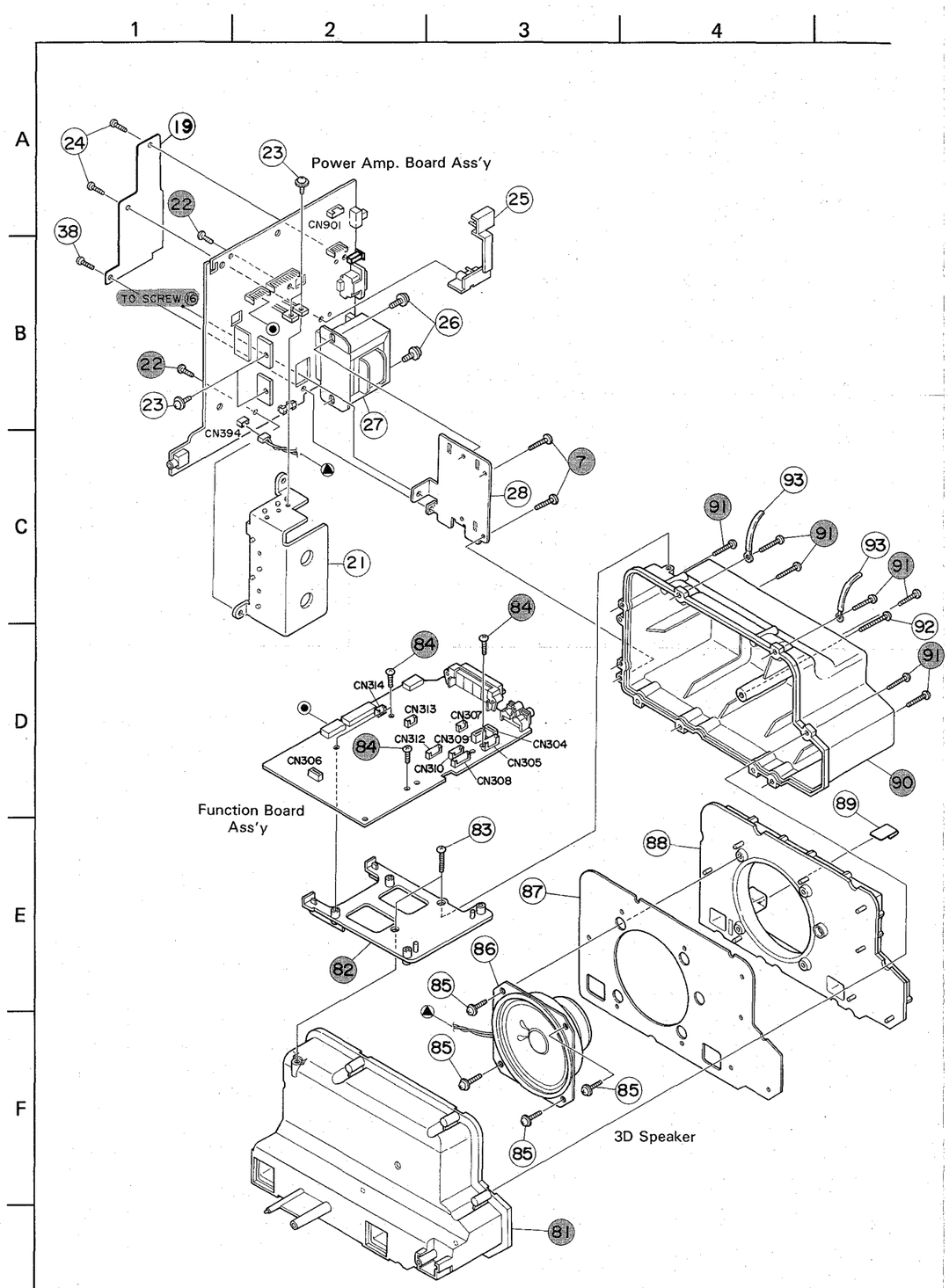



Fig. 2-12

## ■ Removing Manner of 3D Assembly

### ■ Power Amp. Board Ass'y

1. Remove three screws (16) and (22) retaining the power amp. board ass'y.
2. Remove two screws (7) retaining the power transformer bracket to 3D case.
3. Remove four screws (84) retaining the function board ass'y.
4. Remove the power amp. board ass'y from the amp. chassis (82) and disconnect the three connectors (CN301, CN302, and CN315) from the function board.

### ■ Function Board Ass'y

1. Remove the four screws (84) clamping the function board ass'y, and dismount the printed circuit board stopper while raising the printed circuit board. Then, pull out the function board ass'y by removing the connector with the power amp.

### ■ 3D Speaker

*Remove seven screws (91) retaining the 3D covers (81 and 90).*

## • 3D Assembly Parts List

BLOCK NO. M4MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | 7 | SBSF3020Z | SCREW | TRANS BRACKET | 2 | |
| | 19 | VYH7621-002 | BARRIER | | 1 | |
| | 21 | VYH3682-002 | RADIATION | FOR POWER IC | 1 | |
| | 22 | SBSF3008Z | SCREW | FOR RADIATION | 2 | |
| | 23 | DPSP3010Z | SCREW | FOR IC | 4 | |
| | 24 | SBSF3008Z | SCREW | FOR AC HOLDER | 2 | |
| | 25 | VYH7503-001 | AC HOLDER | | 1 | |
| | 26 | VKZ3001-004 | SPECIAL SCREW | FOR POWER TRANS | 2 | |
| | 27 | VTP57P2-12C | POWER TRANSF. | T999 | 1 | E |
| | | VTP57P2-12CBS | POWER TRANS | T999 | 1 | B |
| | 28 | VYH3683-002 | TRANS BRACKET | | 1 | |
| | 38 | SBST3006Z | SCREW | POWER PCB+T.BRK | 1 | |
| | 81 | VYH1207-002 | 3D COVER(F) | | 1 | |
| | 82 | VYH3675-001 | AMP CHASSIS | | 1 | |
| | 83 | SBSF3014Z | SCREW | FOR AMP.CHASSIS | 2 | |
| | 84 | SBSF3010Z | SCREW | FOR FUNCTION | 4 | |
| | 85 | GBSF3012Z | SCREW | FOR 3D SPEAKER | 4 | |
| | 86 | EAS10PL429E | SPEAKER | FOR 3D | 1 | |
| | 87 | VYH3594-001 | SPACER | FOR 3D BASE | 1 | |
| | 88 | VYH2249-003 | 3D BASE | | 1 | |
| | 89 | VYSF101-027 | SPACER | FOR 3D BASE | 1 | |
| | 90 | VYH1208-002 | 3D COVER(R) | | 1 | |
| | 91 | SBSF3020Z | SCREW | FOR 3D COVER R | 7 | |
| | 92 | SBSF3025R | SCREW | FOR 3D COVER R | 1 | |
| | 93 | VKZ4001-111 | WIRE HOLDER | FOR 3D COVER | 2 | |

## <CD Mechanism Section>

BLOCK NO. M6MM

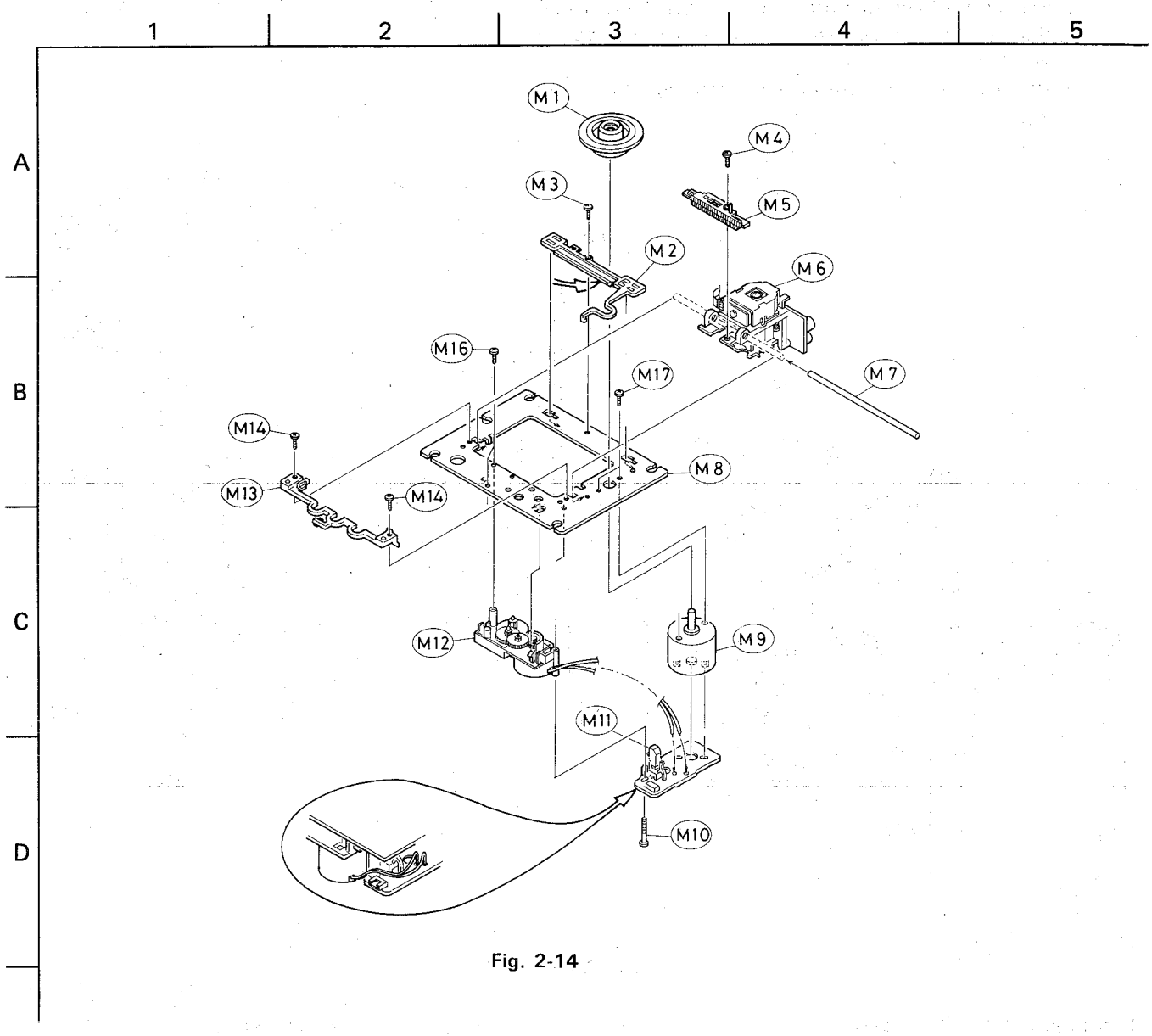



Fig. 2-14

## ■ CD Mechanism Parts List

BLOCK NO. M6MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY |
|---|---|---|---|---|---|
| | M1 | E406064-002 | CD Turn Table Ass'y | | 1 |
| | M2 | E306275-003 | CD Suport | | 1 |
| | M3 | SDST2005Z | Screw | | 1 |
| | M4 | SPSH2050M | Screw | | 1 |
| | M5 | E306282-001 | CD Luck Ass'y | | 1 |
| | M5 | OPTIMA-5S | Pick Up Unit | | 1 |
| | M7 | E74930-003 | Shaft | For Pick Up | 1 |
| | M8 | E26487-003 | Chassis Base | | 1 |
| | M9 | E74539-001B | Spindle Motor | | 1 |
| | M10 | E75832-001 | Screw | For Leaf Switch | 1 |
| | M11 | ESB1100-005 | Leaf Switch | | 1 |
| | M12 | SE10351-11 | Gear Ass'y | | 1 |
| | M13 | E306277-001 | Screw | | 1 |
| | M14 | SDST2004Z | Screw | | 1 |
| | M16 | E72713-001 | Screw | | 1 |
| | M17 | SDSP2003N | Screw | | 2 |

## <Speaker Box Section> Block No. M5MM

1. Remove the front panel assembly (B1), from bottom side.
2. Remove the four screws (B8) retaining the woofer speaker.
3. Remove the two screws (B9) retaining the twitter speaker.

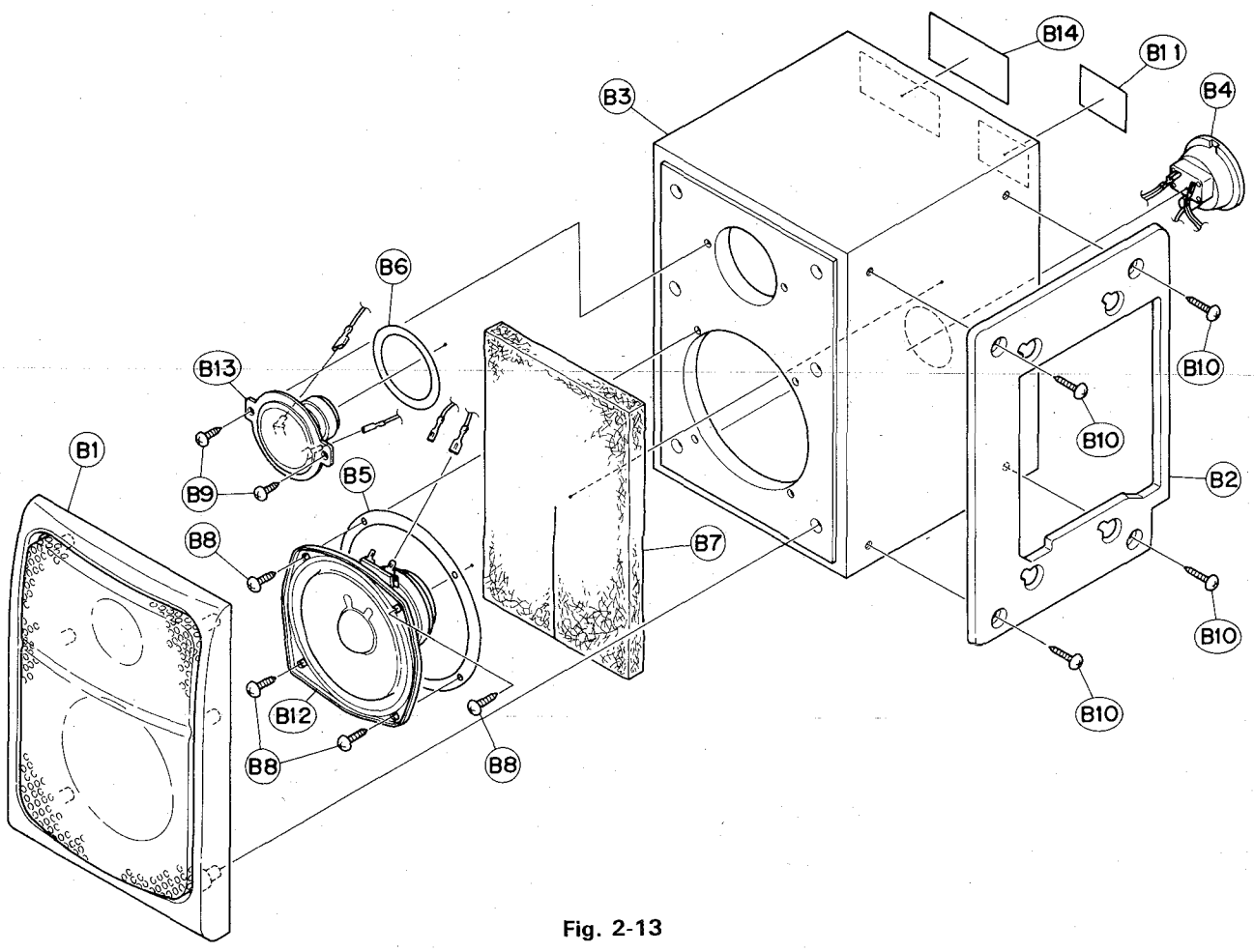



Fig. 2-13

## ■ Speaker Box Parts List

BLOCK NO. M5MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | B 1 | VJC2439-00A | SP.FRONT ASS'Y | FOR LEFT | 1 | |
| | | VJC2439-00A | SP.FRONT ASS'Y | FOR RIGHT | 1 | |
| | B 2 | VJG1034-001 | SP HOLDER (L) | FOR LEFT | 1 | |
| | | VJG1034-002 | SP HOLDER (R) | FOR RIGHT | 1 | |
| | B 3 | VJC2437-001 | SPEAKER BOX | WOOD | 1 | |
| | | VJC2437-002 | SPEAKER BOX | FOR RIGHT | 1 | |
| | B 4 | VMZ0099-002 | TERMINAL | | 1 | |
| | B 5 | VYTH490-001 | PACKING | FOR WOOFER | 1 | |
| | B 6 | VYTH490-002 | PACKING | FOR TWITTER | 1 | |
| | B 7 | VKZ4389-003 | SOUND ABSOBER | | 1 | |
| | B 8 | SDSA4012M | SCREW | WOOFER SPEAKER | 4 | |
| | B 9 | SDSA4012M | SCREW | TWITTER SPEAKER | 2 | |
| | B10 | SDSA4012M | SCREW | SPEAKER HOLDER | 4 | |
| | B11 | VYN7059-001B | NAME PLATE | | 1 | |
| | B12 | VGS1201-005 | SPEAKER | WOOFER | 1 | |
| | B13 | VGS0501-001-1 | SPEAKER | TWITTER | 1 | |
| | B14 | VND4426-001 | CAUTION LABEL | | 1 | |

## <Cassette Mechanism Section>

BLOCK NO. M7MM

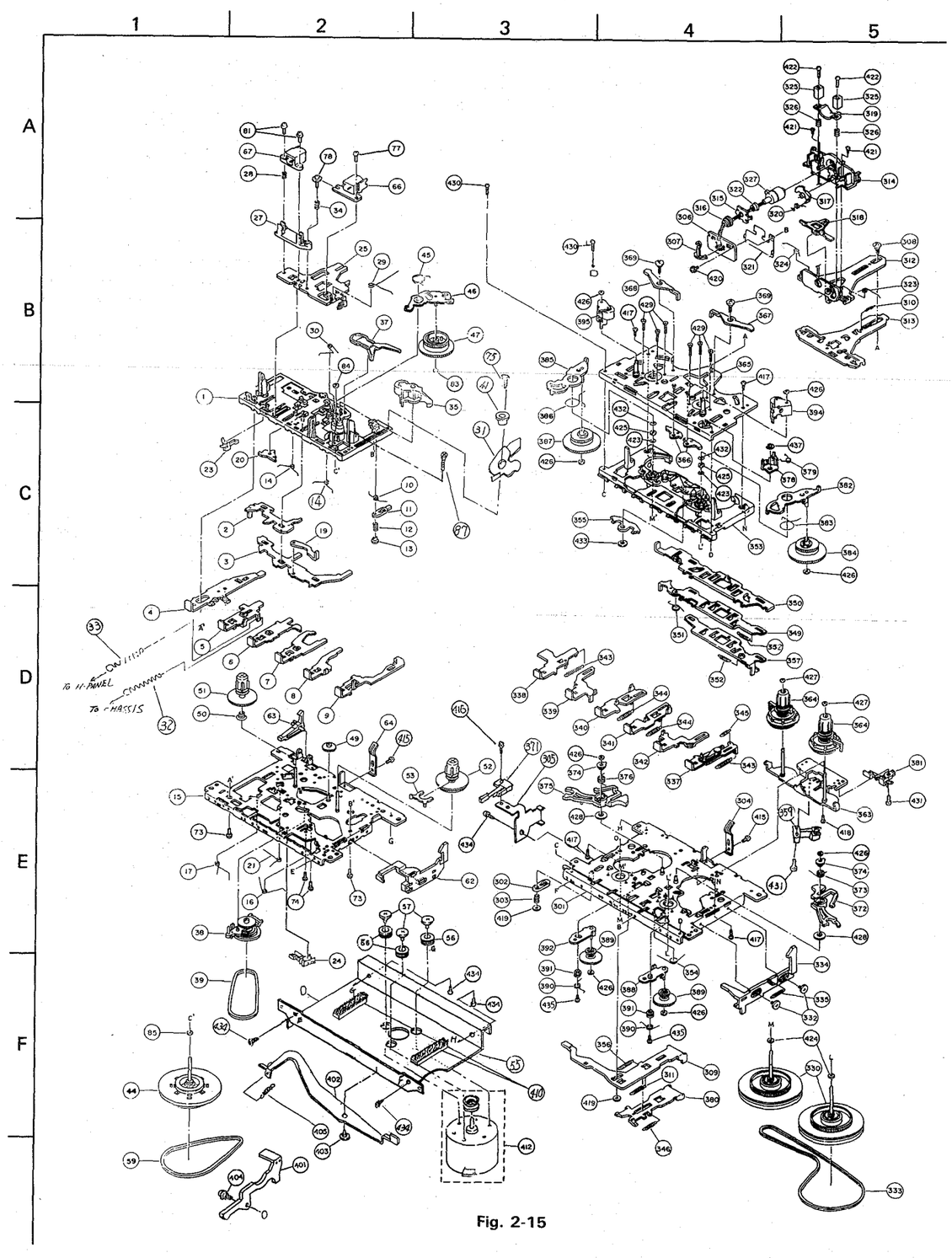



Fig. 2-15

## • Cassette Mechanism Component Parts List

BLOCK NO. M7MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | 1 | 192114301ZT | BASE ASS'Y | | 1 | |
| | 2 | 19211409T | SWITCH PLATE | | 1 | |
| | 3 | 19211408T | LOCK CAM | PUSH BUTTON | 1 | |
| | 4 | 19211422T | BUTTON LEVER | REC | 1 | |
| | 5 | 19211423T | BUTTON LEVER | PLAY | 1 | |
| | 6 | 19211424T | BUTTON LEVER | REW | 1 | |
| | 7 | 19211425T | BUTTON LEVER | FF | 1 | |
| | 8 | 19211426T | BUTTON LEVER | STOP | 1 | |
| | 9 | 19211427T | BUTTON LEVER | PAUSE | 1 | |
| | 10 | 19211413T | TORSION SPRING | P CONTROL | 1 | |
| | 11 | 19211410T | PAUSE LEVER | | 1 | |
| | 12 | 19211412T | SPRING | | 1 | |
| | 13 | 19211411T | PAUSE STOPPER | | 1 | |
| | 14 | 19211414T | TORSION SPRING | BUTTON LEVER | 1 | |
| | 15 | 192101501ZT | CHASSIS ASS'Y | | 1 | |
| | 16 | 19211416T | TORSION SPRING | E ACTUATOR | 1 | |
| | 17 | 19211417T | TORSION SPRING | P.S.LEVER | 1 | |
| | 19 | 1821O1159T | E.KICK LEVER | | 1 | |
| | 20 | 19211420T | STTOPPER | PR | 1 | |
| | 21 | 19211421T | TORSION SPRING | REC BUTTON LEVE | 1 | |
| | 22 | 19211415T | TORSION SPRING | BUTTON LEVER | 1 | |
| | 23 | MSW-1541T | LEAF SWITCH | MSW-1541T | 1 | |
| | 24 | 640101161T | LEAF SWITCH | MSW-1720MUDO | 1 | |
| | 25 | 19210302T | HEAD PANEL | | 1 | |
| | 27 | 19210306T | HEAD BASE | | 1 | |
| | 28 | 18210308T | SPRING | | 1 | |
| | 29 | 19210303T | TENSION SPRING | PANEL | 1 | |
| | 30 | 19211418T | TORSION SPRING | M CONTROL | 1 | |
| | 31 | 19211434T | P.ROLLER ARM | | 1 | |
| | 34 | 18210307T | AZIMUTH SPRING | | 1 | |
| | 35 | 192104306T | P.ROLL.ARM ASY. | | 1 | |
| | 37 | 19212604TT | SENSING LEVER | | 1 | |
| | 38 | 192107302ZT | RF CLUTCH ASS'Y | | 1 | |
| | 39 | 19210703T | REW/F.F. BELT | | 1 | |
| | 41 | 19211437T | P ARM COLLAR | | 1 | |
| | 44 | 192109309T | FLYWHEEL ASS'Y | | 1 | |
| | 45 | 19212605T | TORSION SPRING | GEAR PLATE | 1 | |
| | 46 | 1921265O1ZT | GEAR PLATE ASSY | | 1 | |
| | 47 | 19212602T | CAM GEAR | | 1 | |
| | 49 | 18211070T | F.FORWARD GEAR | | 1 | |
| | 50 | 18211010T | SPRING | BACK TENSION | 1 | |
| | 51 | 192105304T | SUPPLY REEL ASY | SUPPLY | 1 | |
| | 52 | 192105303T | TAKEUP REEL ASY | TAKE UP | 1 | |
| | 53 | 19210506T | SENSOR | | 1 | |
| | 55 | 18511451T | MOTOR BRACKET | | 1 | |
| | 56 | 18201306T | RUBBER CUSHION | | 3 | |
| | 57 | 18211202T | COLLAR SCREW | MOTOR | 3 | |
| | 59 | 19210927T | MAIN BELT | | 1 | |
| | 62 | 19211302T | EJ. SLIDE LEVER | | 1 | |
| | 63 | 18211069T | REC.SAF.LEVER | | 1 | |
| | 64 | 18291001T | PACK SPRING | | 1 | |
| | 66 | VGH0421-021 | R/P HEAD | VGH0421-020 | 1 | |
| | 74 | 99991809T | SPECIAL SCREW | M2 X 4.5 | 3 | |
| | 75 | 99992018T | SPECIAL SCREW | 2 X 3.5 | 1 | |
| | 77 | 91150000T | SCREW(M2 X 3) | M2 X 3 | 1 | |
| | 78 | 99220000T | SCREW(M2 X 7) | M2 X 7 | 1 | |
| | 80 | 91780000T | SCREW | M2 X 3 | 1 | |
| | 81 | 92230000T | CAP SCREW | M2 X 7.5 | 2 | |
| | 83 | 94220000T | POLY.CUT WASHER | 1.2 X 3.8 X 0.3 | 1 | |
| | 84 | 99990313T | POLY.CUT WASHER | 1.45 X 3.8 X 0. | 1 | |
| | 85 | 97860000T | POLY WASHER | 2 X 3.5 X 0.3 | 1 | |
| | 301 | 185101303T | CHASSIS ASS'Y | | 1 | |
| | 302 | 18210115T | PAUSE LEVER | | 1 | |
| | 303 | 18210116T | LEVER SPRING | | 1 | |
| | 304 | 18291006T | PACK SPRING | | 1 | |
| | 305 | 18510118T | DIR.SW.BRACKET | | 1 | |
| | 306 | 18510106T | H.W.TERM.BOARD | | 1 | |
| | 307 | 18650965T | CODE CLAMPER | | 1 | |
| | 308 | 18510404T | H.P. COLLAR | | 1 | |
| | 309 | 18510408T | RELEASE PLATE | | 1 | |
| | 310 | 18510409T | R.C.PLATE SP. | R.C.PLATE | 1 | |
| | 311 | 18510411T | R.C.SPRING(M) | | 1 | |
| | 312 | 18510414T | HEAD PANEL | | 1 | |
| | 313 | 18510415T | R.C.PLATE | | 1 | |
| | 314 | 18510439T | HEAD MOUNT | | 1 | |
| | 315 | 18510418T | HOLDER | | 1 | |
| | 316 | 18510444T | PINION GEAR | | 1 | |
| | 317 | 18510420T | H TUR.OVER GEAR | | 1 | |
| | 318 | 18510421T | HEAD SLIDE PLAT | | 1 | |
| | 319 | 18510424T | HEAD SP PLATE | | 1 | |
| | 320 | 18510425T | SPRING | H.TURN OVER | 1 | |
| | 321 | 18510445T | H.SHIELD PLATE | | 1 | |
| | 322 | 18510427T | H HOLDER SPRING | | 1 | |
| | 323 | 18510428T | P.ROLLER SP(F) | | 1 | |

BLOCK NO. M7MM□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | 324 | 18510429T | P.ROLLER SP(R) | | 1 | |
| | 325 | 18510436T | SCREW HOLDER | | 2 | |
| | 326 | 18650259T | AZIMUTH SP (D) | | 2 | |
| | 327 | 62020172T | RP HEAD | | 1 | |
| | 330 | 185112504T | FLYWHEEL ASS'Y | | 2 | |
| | 332 | 18211223T | COLLAR SCREW | | 2 | |
| | 333 | 18511416T | MAIN BELT | | 1 | |
| | 334 | 18511703T | EJ.SLIDE LEVER | | 1 | |
| | 335 | 18511702T | SPRING | | 1 | |
| | 337 | 185102312ZT | LEVER ASS' Y | PROG BUTTON | 1 | |
| | 338 | 185102325T | LEVER ASS'Y | MODE BUTTON | 1 | |
| | 339 | 18510232T | PLAY BUT.LEVER | PLAY | 1 | |
| | 340 | 18510235T | REW.BUT.LEVER(R | FF | 1 | |
| | 341 | 18510234T | FF BUT.LEVER(F) | FF | 1 | |
| | 342 | 18510231T | STOP BUT.LEVER | STOP | 1 | |
| | 343 | 18510270T | PROG BUT.LEV.SP | PROG BUTT.LEVER | 2 | |
| | 344 | 18510269T | LEVER SPRING | FF/REW BUTTON | 2 | |
| | 345 | 18510227T | PULL ARM SPRING | PULL ARM | 1 | |
| | 346 | 18511606T | SPRING | FF SWITCH PLATE | 1 | |
| | 349 | 185102321T | LOCK ACT. ASS'Y | | 1 | |
| | 350 | 18510256T | SLIDE PLATE | | 1 | |
| | 351 | 18510276T | SPRING | LOCK RELEASE | 1 | |
| | 352 | 18510267T | SPRING | SWITCH ACTUATOR | 1 | |
| | 353 | 185102504T | BUT. BASE ASS'Y | | 1 | |
| | 354 | 18510221T | SPRING | STOP BUTTON LEV | 1 | |
| | 355 | 18510241T | FF CONTROL ARM | | 1 | |
| | 356 | 18510242T | SPRING(P) | BUTTON LEVER | 1 | |
| | 357 | 185102322T | SW ACT.ASS'Y | SW ACTUATOR | 1 | |
| | 358 | 18510225T | SPRING | LOCK ACTUATOR | 1 | |
| | 359 | 64010138T | LEAF SWITCH | MSW-1275 | 1 | |
| | 363 | 185111301ZT | REEL PLATE ASSY | | 1 | |
| | 364 | 185111501ZT | REEL ASS'Y | | 2 | |
| | 365 | 185118303T | SUB CHAS. ASS'Y | SUB | 1 | |
| | 366 | 18511810T | RC ARM | | 2 | |
| | 367 | 18511805T | AUTO CONT.ARM(F | AUTO CONTROL | 1 | |
| | 368 | 18511806T | AUTO CONT.ARM(R | AUTO CONTROL | 1 | |
| | 369 | 18511807T | CONT.ARM COLLAR | CONTROL | 2 | |
| | 371 | 64010199T | LEAF SWITCH | MSW-1473NBK | 1 | |
| | 372 | 18512001T | AUTO LEVER (F) | | 1 | |
| | 373 | 18512003T | A.LEV.(R)SPRING | AUTO LEVER(R) | 1 | |
| | 374 | 18512005T | SPRING STOPPER | | 2 | |
| | 375 | 18512002T | AUTO LEVER (R) | | 1 | |
| | 376 | 18512004T | A.LEV.(F)SPRING | AUTO LEVER(F) | 1 | |
| | 378 | 18510303T | TURN OVER ARM | | 1 | |
| | 379 | 18510304T | TURN OV. SPRING | | 1 | |
| | 380 | 18511602T | FF SW PLATE | | 1 | |
| | 381 | 640101151T | LEAF SWITCH | MSW-1290CV | 1 | |
| | 382 | 185105302T | ARM(F) ASS'Y | T GEAR | 1 | |
| | 383 | 18510504T | ARM(F) SPRING | T GEAR | 1 | |
| | 384 | 18510503T | T CAM GEAR (F) | | 1 | |
| | 385 | 185106302T | ARM(R) ASS'Y | T GEAR | 1 | |
| | 386 | 18510603T | ARM(R) SPRING | T GEAR | 1 | |
| | 387 | 18510602T | T CAM GEAR (R) | | 1 | |
| | 388 | 185107301ZT | FF G.ARM(F)ASSY | | 1 | |
| | 389 | 18510703T | FF GEAR | | 2 | |
| | 390 | 18510704T | G.ARM SPRING(F) | FF | 2 | |
| | 391 | 18510705T | FF G.ARM COLLAR | | 2 | |
| | 392 | 185108301ZT | FF G.ARM(R)ASSY | | 1 | |
| | 394 | 185109502ZT | P.ROLLER(F)ASSY | | 1 | |
| | 395 | 185110502ZT | P.ROLLER(R)ASSY | | 1 | |
| | 401 | 19211209T | P KICK LEVER(B) | | 1 | |
| | 402 | 18511435T | P KICK LEVER(A) | | 1 | |
| | 403 | 18211223T | COLLAR SCREW | | 1 | |
| | 404 | 18211224T | COLLAR SCREW | | 1 | |
| | 405 | 18511404T | SPRING | P KICK LEVER | 1 | |
| | 410 | 18511437T | MAT | | 2 | |
| | 412 | 185114317T | MOTOR ASS'Y | SHU9L02,53 | 1 | |
| | 415 | 91780000T | SCREW | M2 X 3 | 2 | |
| | 416 | 90770000T | ASS'Y SCREW | M2 X 4 | 1 | |
| | 417 | 96740000T | TAPPING SCREW | M2 X 6 | 4 | |
| | 418 | 96930000T | CAMERA SCREW | M1.7 X 3 | 3 | |
| | 419 | 98760000T | P WASHER | 2.1 X 5 X 0.5 | 2 | |
| | 420 | 99992012T | TWO LOCK SCREW | M2 X 4 | 1 | |
| | 421 | 96950000T | CAM.S.TAP SCREW | M1.7 X 4 | 5 | |
| | 422 | 99992036T | SCREW | M2 X 12 | 2 | |
| | 423 | 97860000T | POLY WASHER | 2 X 3.5 X 0.3 | 2 | |
| | 424 | 98890000T | P WASHER | 2.1 X 3 X 0.3 | 2 | |
| | 425 | 99990309T | P WASHER | 1.45 X 4 X 0.5 | 2 | |
| | 426 | 94210000T | P.WASHER | 1.2 X 3 X 0.25 | 8 | |
| | 427 | 99990307T | P WASHER | 1.2 X 3.7 X 0.4 | 2 | |
| | 428 | 99990009T | P WASHER | 3 X 8.5 X 0.13 | 2 | |
| | 429 | 99991303T | CAM.S.TAP SCREW | M1.7 X 8.5 | 6 | |
| | 430 | 91890000T | TH.TAP SCREW | M2 X 9 | 2 | |
| | 431 | 91810000T | SCREW | M2 X 5 | 2 | |
| | 432 | 99990013T | P WASHER | 1.75 X 4 X 0.3 | 2 | |
| | 433 | 99990016T | P WASHER | 2.8 X 6 X 0.5 | 1 | |
| | 434 | 91800000T | SCREW | M2 X 4 | 3 | |
| | 437 | REE2000X | E.RING | | 1 | |



# 3 Main Adjustment

## ■ Equipment and Measuring Instrument used for Adjustment

Electronic voltmeter
Audio frequency oscillator
Attenuator
Wow-flutter meter
Frequency counter
Standard signal generator
Torque testing cassette gauge CTG-N
Adjust tape
Measuring tape : TS-8 (UR)
VTT703 (10 kHz)
VTT712 (3 kHz)
VTT724 (1 kHz)
VTT739 (63 kHz/7 kHz/10 kHz)

## ■ Condition for Measurements

Power Supply ..... AC 230 V (50/60 Hz)
DC 12 V
Reference output ... Speaker: 50 mW (0.39 V)/3 Ω

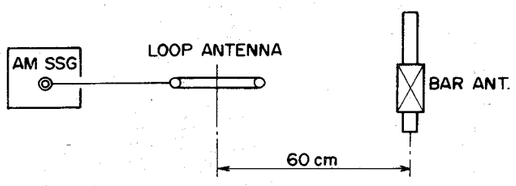
Function position ....TAPE/FM MODE : TAPE NORMAL
FUNCTION : NORMAL SPEED
SEA : Centre
3D : OFF
BEAT CUT : NORMAL

## ■ Condition for Measurement: Tuner Sections

Applied voltage of the Tuner : DC 5.7 V
Connect a 47 Ω resistor in series with are power supply.
Reference output : Speaker ; 50 mW (0.39 V)/3 Ω
Input signal : (AM) modulation frequency; 400 Hz, 30%
(FM) Modulation frequency;
400 Hz, 22.5 kHz dev.
Set position of Volume and Switch : SEA; Center

**Attentive point**
Connection of IF sweeper :
Connect a 30 pF capacitor and a 33 kΩ resistor in series to the sweeper's output and a 0.082 μF capacitor and a 100 kΩ resistor in series to the input.
IF sweeper's output level :
Set at the lowest level that will allow adjustment.

**Loop Antenna**




## ● Location of Adjustment (Tuner)

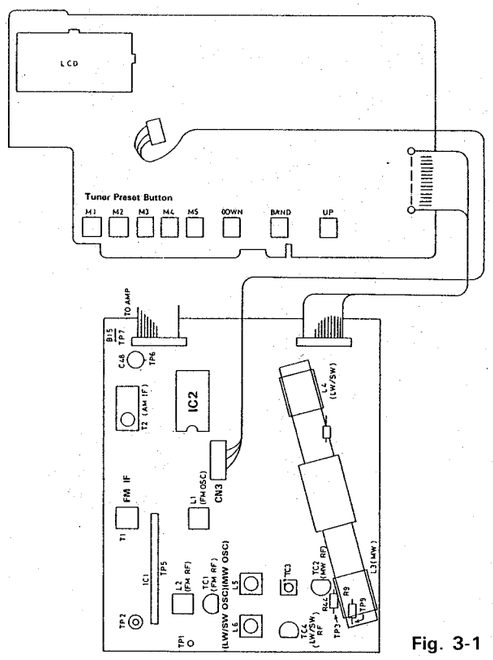
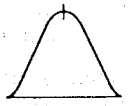
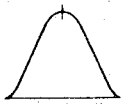
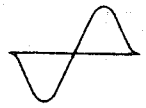



Fig. 3-1

## ■ Tuner Alignment

**BASIC CONDITIONS**

| | |
|---|---|
| POWER SOURCE OF THE RECEIVER | DC 12 V, AC 230 V (Tuner input: DC 5.6 V) |
| LOAD RESISTANCE OF THE RECEIVER | 50 mW (0.39 V)/3 Ω |
| MODULATION OF SSG | AM: 400 Hz 30%  FM: 400 Hz 22.5 kHz DEV: |

| Item | Description |
|---|---|
| **1. AM IF ALIGNMENT (The unit should not usually require adjustment. Follow the steps below when adjustments are necessary).** | |
| 1-1 Conditions of the receiver | |
| (1) Power source: | DC 5.6 V<br>(When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.) |
| (2) Function switch position: | RADIO |
| (3) Band select switch: | AM |
| (4) Volume control: | Minimum gain position |
| (5) SEA control: | Center position |
| (6) Reception frequency: | Set the reception frequency to the highest position and to the position where the signal does not enter. |
| 1-2 Connection of Sweeper and the receiver | |
| (1) Tuner input: | Positive side to TP3 |
| (2) Tuner output: | Positive side to TP6<br>Negative side to TP7 ] |
| 1-3 Aligning position: | T2 |
| 1-4 Alignment (Waveform):  Fig. 3-2 | Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained.<br>In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper. |
| **2. FM IF ALIGNMENT (The unit should not usually require adjustment. Follow the steps below when adjustments are necessary).** | |
| 2-1 Conditions of the receiver. | |
| (1) Power source: | Same as mentioned in item 1-1 (1) |
| (2) Function switch position: | RADIO |
| (3) Band select switch: | FM |
| (4) Volume control: | Minimum gain position |
| (5) SEA control: | Center position |
| (6) Reception frequency: | Set the reception frequency to the highest position and to the position where the signal does not enter. |
| 2-2 Connection of Sweeper and the receiver | |
| (1) Tuner input: | Positive side to TP5 |
| (2) Tuner output: | Positive side to TP6<br>Negative side to TP7 |
| **NOTE**<br>a) Attach a capacitor (30 pF) and resistor (33 kΩ) to the positive side cable which shall be led from Sweeper output.<br>b) Attach a resistor (100 kΩ) and capacitor (0.082 μF) in series to the positive side cable which shall be led from Sweeper input. | |
| 2-3 Aligning position: | Discriminate Waveform: T1<br>("S" curve waveform) |
| 2-4 Alignment (Waveform):  Fig. 3-3  Fig. 3-4 | |
| **Note**<br>The discriminator's CF is yeloow.<br>Do not use one that is of another color. | Dismount CF3. Then, the shape of the S curve waveform will be changed as indicated in Fig. 3-3. Turn T1 and adjust the peak point so that the point becomes 10.7 MHz with symmetrical waveform. Next, mount the CF3, and adjust the S curve as indicated in Fig. 3-4. |

**3. AM RF ALIGNMENT**

| | |
|---|---|
| 3-1 Conditions of the receiver. | |
| (1) Power source: | Same as mentioned in item 1-1 (1). |
| (2) Function switch position: | RADIO |
| (3) Volume control: | 50 mW |
| (4) SEA control: | Center position |
| (5) Variable capacitor: | Refer the following list shown in item 3-4. |
| 3-2 Condition of SSG. | |
| (1) Modulation: | Refer the basic condition |
| (2) Frequency: | Refer the following list shown in item 3-4. |
| (3) Output level of the attenuator in SSG: | Approx. 50 mW |
| 3-3 Alignment: | |

| Step | Band Select Switch Position | Sort of Antenna to be attached to SSG | Frequency of SSG | Preset channel | Aligning methode | Aligning Position |
|---|---|---|---|---|---|---|
| 1 | MW | Loop Antenna | 1,629 kHz | 5 ch | Adjust the voltage of TP-9 to 4.6 V±0.02 V. | L-5 |
| 2 | | | 603 kHz | 2 ch | to be received 603 kHz | L-3 |
| 3 | | | 1,404 kHz | 4 ch | to be received 1,404 kHz | TC-2 |
| 4 | | | Adjust the above aligning position (L-3 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity | | | |
| 5 | LW | Loop Antenna | 288 kHz | 5 ch | Adjust the voltage of TP-9 to 4.5 V±0.02 V. | L-6 |
| 6 | | | 162 kHz | 2 ch | to be received 162 kHz | L-4 |
| 7 | | | 270 kHz | 4 ch | to be received 270 kHz | TC-4 |
| 8 | | | Adjust the above aligning position (L-4 & TC-4) repeatedly so that the tuner can be obtained the best sensitivity | | | |

**4. FM RF ALIGNMENT**

| | |
|---|---|
| 4-1 Conditions of the receiver. | |
| (1) Power source: | Same as mentioned in item 1-1 (1). |
| (2) Function switch position: | RADIO |
| (3) Band select switch: | FM |
| (4) Volume control: | 50 mW |
| (5) SEA control: | Center position |
| (6) Reception frequency: | Refer the following list shown in item 4-4. |
| 4-2 Condition of FM SSG. | |
| (1) Modulation: | Refer the basic condition |
| (2) Frequency: | Refer the following list shown in item 4-4. |
| 4-3 Connection of sweeper and the receiver. | |
| (1) Tuner input | Positive side to TP1. |
| | Negative side to TP2. |
| (2) Output measuring position | Speaker Terminal |
| 4-4 Alignment: | |

| Step | Band Select Switch Position | Sort of Antenna to be attached to SSG | Frequency of SSG | Preset channel | Aligning methode | Aligning Position |
|---|---|---|---|---|---|---|
| 1 | FM | 75 Ω Unbalanced | 108 MHz | 5 ch | Adjust the voltage of TP-9 to 4.4 V±0.02 V. | L-1 |
| 2 | | | 88 MHz | 2 ch | to be received 88 kHz | L-2 |
| 3 | | | 106 kHz | 4 ch | to be received 106 MHz | TC-1 |
| 4 | | | Repeatedly adjust 2 and 3 so that the output become maximum. | | | |

## ■ Cassette Section

### • Location of Cassette Adjustment

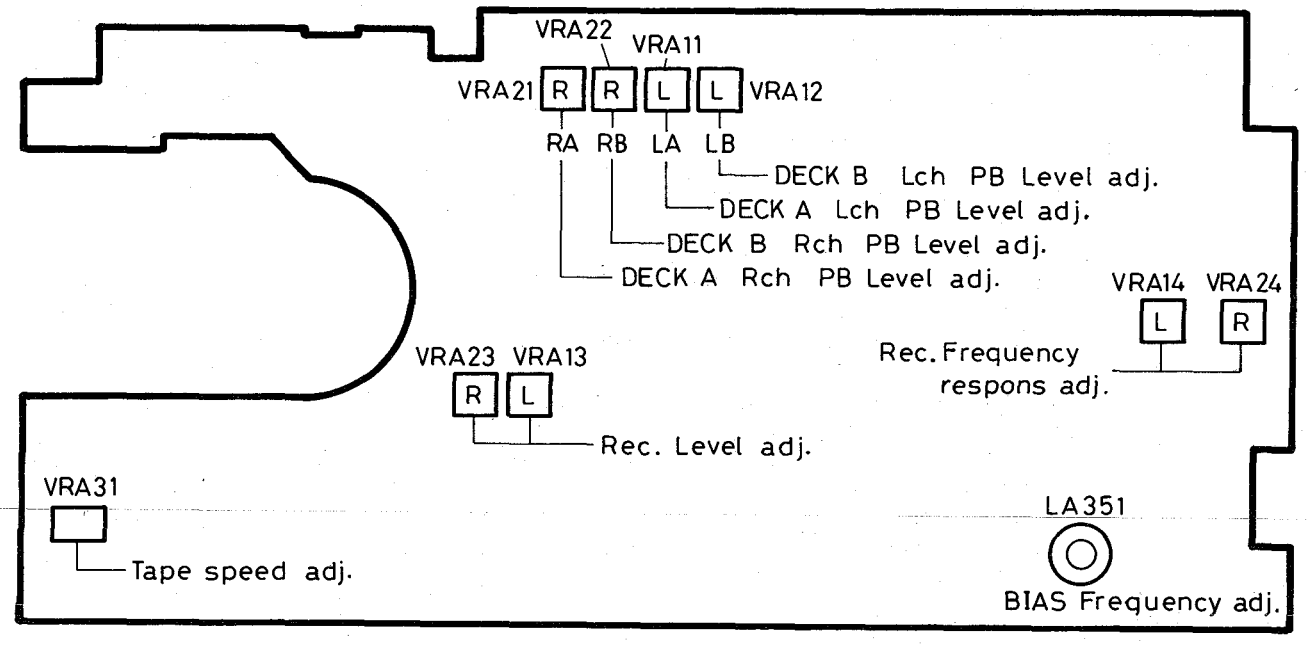



Fig. 3-5

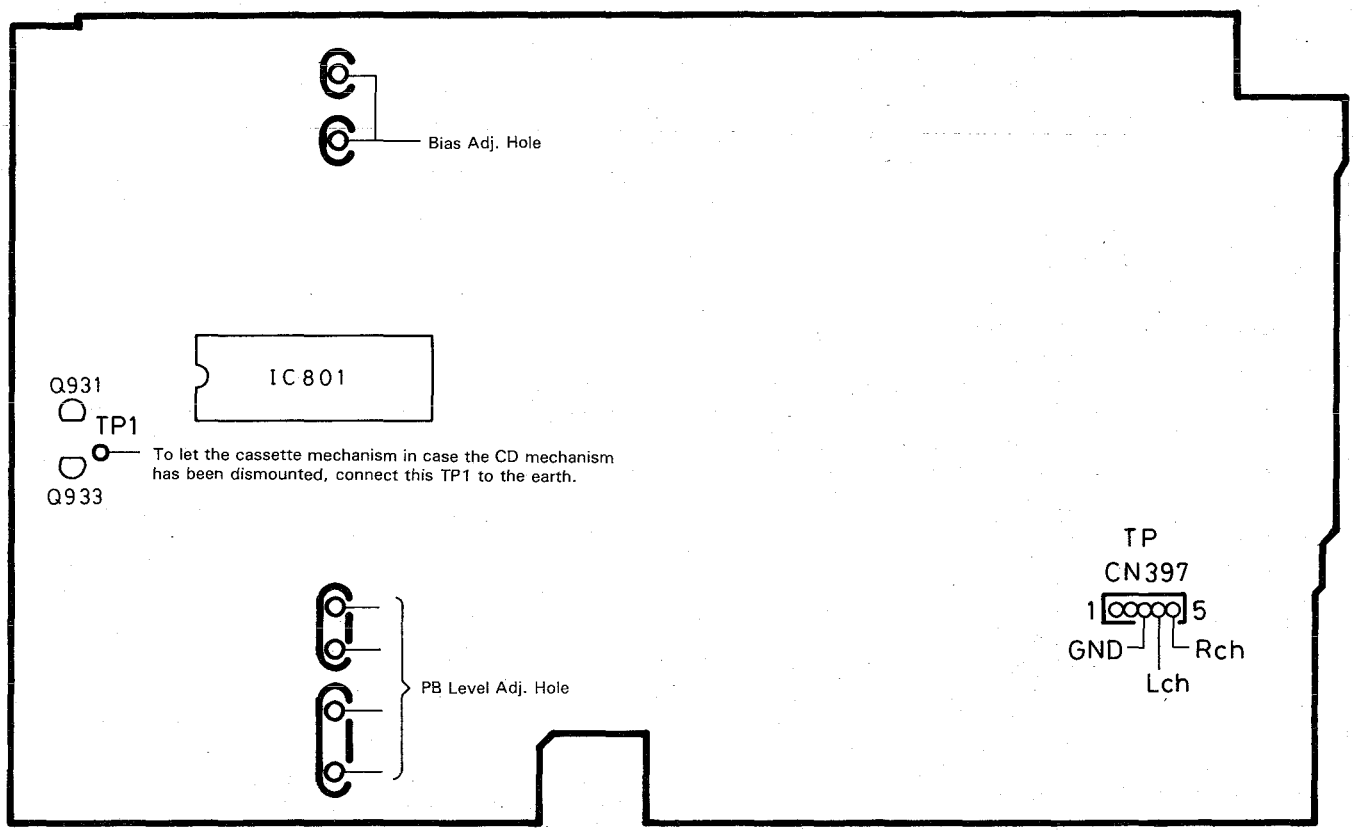
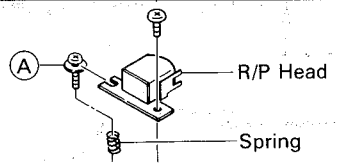



Fig. 3-6

## ■ Mechanism and Amplifier Sections

(In case the CD unit is dismounted, connect TP1 of the function board to the earth).

<table>
<tr><th>Item</th><th>Measuring Conditions and Main Adjustments</th><th>Standard Value</th><th>Adjust</th></tr>
<tr><td>Head azimuth adjustment</td><td><Conditions><br>1. Mode : PLAY<br>2. Test tape : VTT703 (10 kHz)<br>3. Measuring point : Speaker terminal<br><Adjustment><br>1. Connect an electronic voltmeter to the speaker terminal.<br>2. Playback the test tape VTT703.<br>3. Adjust the head azimuth with screw Ⓐ (Fig. 3-7) until the reading of the electronic voltmeter becomes maximum. At this time, the phase difference should be minimum.<br>Use the adjustment screw to adjust so that the outputs of the B mechanisms become maximum, and so that the left/right phase difference becomes minimum. (Make sure that the FWD/REV difference is within 3 dB).<br>Use bond lock to secure the adjusted parts after adjustment.</td><td>  <br><br>Fig. 3-7<br><br>Maximum Point</td><td>Left side screw of A mechanism<br><br>B mechanism (recording/playback)<br>FWD ...<br>Screw on left side<br>REV ...<br>Screw on right side</td></tr>
<tr><td>Tape speed and wow-flutter adjustment</td><td><Conditions><br>1. Mode : PLAY, Normal speed<br>2. Test type: Perorm this test near VTT712 at the tape end.<br>3. measuring point : Speaker terminal<br><Confirmation><br>1. Connect a wow-flutter and F. counter meter to speaker terminal.<br>2. Playback the test tape VTT712 at tape end.<br>3. Adjust VRA31 in the pre amp. board so that is obtained within 2950 ~ 3050 Hz at normal speed.<br>4. Check to see if reading of the meter is less than 0.35% (JIS RMS).</td><td>Normal Speed<br>: 2950 ~ 3050 Hz<br><br>High speed<br>: 5100 ~ 5900 Hz<br><br>Wow-flutter<br>: less than 0.35% (JIS RMS)</td><td>Tape speed<br>VRA31</td></tr>
<tr><td>Playback output level adjustment</td><td><Conditions><br>1. Measuring tape: VTT724 (1 kHz)<br>2. Measuring point: Speaker terminal<br><Adjustment><br>1. Playback the test tape VTT724 (at 1 kHz) and adjust Lch: VRA11 and Rch: VRA21 of deck A so that output of TP (speaker terminal) becomes dB. Also adjust Lch: VRA12 and Rch: VR422 of Deck B same as Deck A.</td><td>– dB ±1 dB</td><td>Deck A<br>Lch: VRA11<br>Rch: VRA21<br>Deck B<br>Lch: VRA12<br>Rch: VRA22</td></tr>
<tr><td>Playback frequency response confirmation</td><td><Conditions><br>Test tape : VTT739<br>Mode : PLAY<br>Measuring point : Speaker terminal<br><Confirmation><br>Playback the test tape VTT739 difference level against 1 kHz.<br>1 kHz/63 Hz : 2±4 dB<br>1 kHz/10 kHz : 0±3 dB</td><td>1 kHz/63 Hz<br>: –2±3 dB<br>1 kHz/10 kHz<br>: 0±3 dB</td><td>–</td></tr>
<tr><td>Bias frequency adjustment</td><td><Conditions><br>1. Measuring point: Speaker terminal<br>2. Mode: REC/PAUSE<br><br><table><tr><th>Beat Cut Switch</th><th>Bias frequency</th></tr><tr><td>1 (Normal)</td><td>68±0.5 kHz</td></tr><tr><td>2</td><td>67.1±1 kHz</td></tr><tr><td>3</td><td>69.5 kHz</td></tr></table><br><Adjustment><br>Adjust L301 so that standard value is 68±0.5 kHz while in RECORD/PAUSE mode.</td><td></td><td>L301</td></tr>
</table>

| Item | Measuring Conditions and Main Adjustments | Standard Value | Adjusting Point |
|---|---|---|---|
| REC/Playback frequency characteristics adjustment | <Conditions><br>1. Measuring input: CN397<br>2. Measuring point: Speaker terminal.<br><Adjustment><br>Input 1 kHz REF. −20 dB (−28 dB) signal into CN397. When recording this signal onto the tape and playing it back, adjust Lch: VRA14 and Rch: VRA24 so that the output level is 0±1 dB at the 10 kHz point. | 0±1 dB at 10 kHz | Lch : VRA14<br>Rch : VRA24 |
| REC/Playback sensitivity adjustment | <Conditions><br>1. Measuring input: CN397<br>2. Measuring point: Speaker terminal<br><br><Adjustment><br>Input 1 kHz (REF −8 dBs) signal into CD OUT. When recording this signal onto the tape and playing it back, adjust Lch: VRA13 and Rch: VRA23 of Deck A so that the output level is 0±1 dB. | 0 ±1 dB | Deck A<br>Lch: VRA13<br>Rch: VRA23 |
| Confirmation of ALC | <Condition><br>Measuring input: CN397<br>output: Speaker terminal<br><Confirmation><br>When the [Comformation] input level has been changed from −8 dBs to +2 dB, the recording and replaying output deviations should be within 6 dB. | With 6 dB | — |
| Checking record/playback distortion | 1) Record a 1 kHz, −20 dBS signal to CN397 terminals.<br>2) Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value. | Normal tape:<br>Less than 5% | Be sure to perform this checking following bias current and recording level checking. |
| Checking signal to noise ratio in recording/playback | 1) Record a 1 kHz, −20 dBs signal. Stop the input by disconnecting from the terminal (CN397) to perform non-signal recording.<br>2) Play back the recorded part. Measure the −8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. | More than 37 dB | |

## ■ CD Section

### • Location of Adjustment

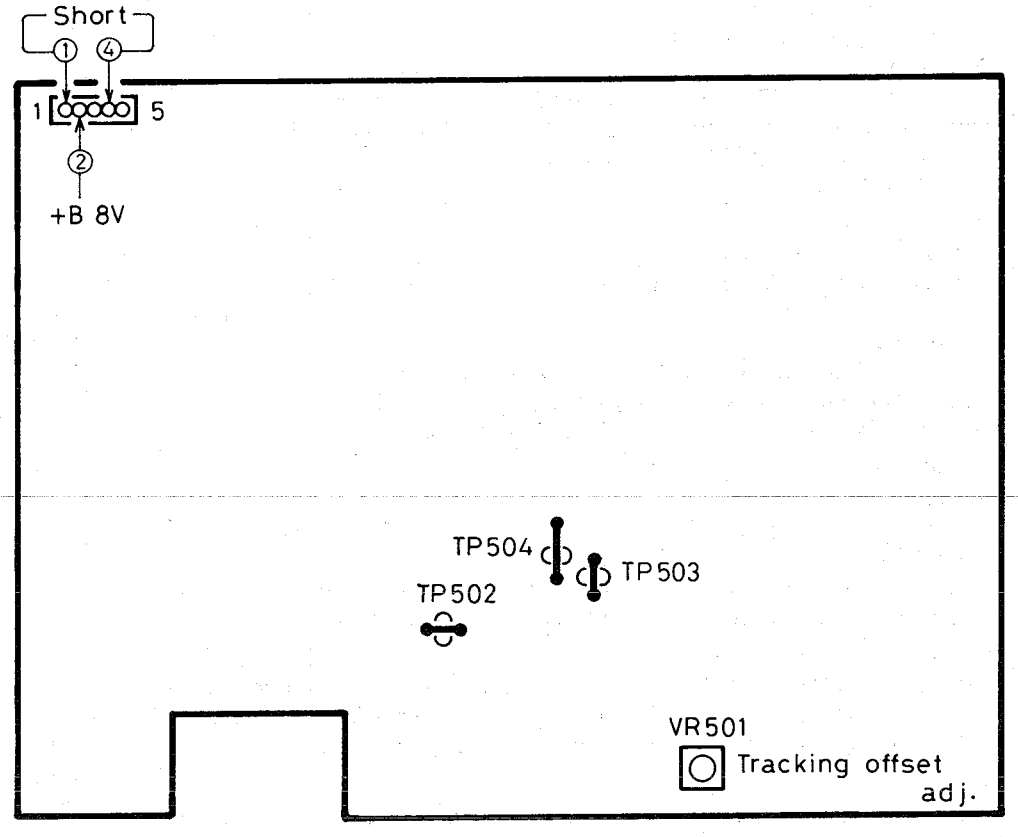
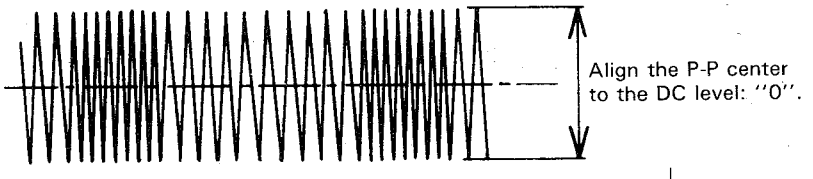



Fig. 3-8

## ■ Adjust of CD Player Section

**Caution:**

1. In the case of PC-XT5, the cassette mechanism will not work when the CD unit has been dismounted from the main assembly. To let the cassette mechanism work, connect TP1 of the function board assembly to GND.

| Items | Devices Used | Adjustment Method | Adjusting Position |
|---|---|---|---|
| Adjustment of tracking offset | Normal disk oscilloscope | 1. Connect the oscilloscope between TP502 (VREF) nd TP503 (TE).<br>2. Connect the terminal ① and ④ of FW501 and apply 10 V to the terminal ② of FW501.<br>3. Replay (Regenerate) the normal disk.<br>4. Connect TP504 and TP502 (for shorting).<br>5. Adjust (the tracking offset waveform with) VR501 so that the DC level of tracking error signal (waveform of oscilloscope) becomes zero.<br>Waveform of tracking offset<br>  <br><br>**Notes**<br>1. Adjust VR501 so that the waveform becomes vertically symmetrical with reference to the zero level.<br>2. The oscilloscope input should be coupled to DC. | VR501 |

# 4 Block Diagram

## Receiver Section

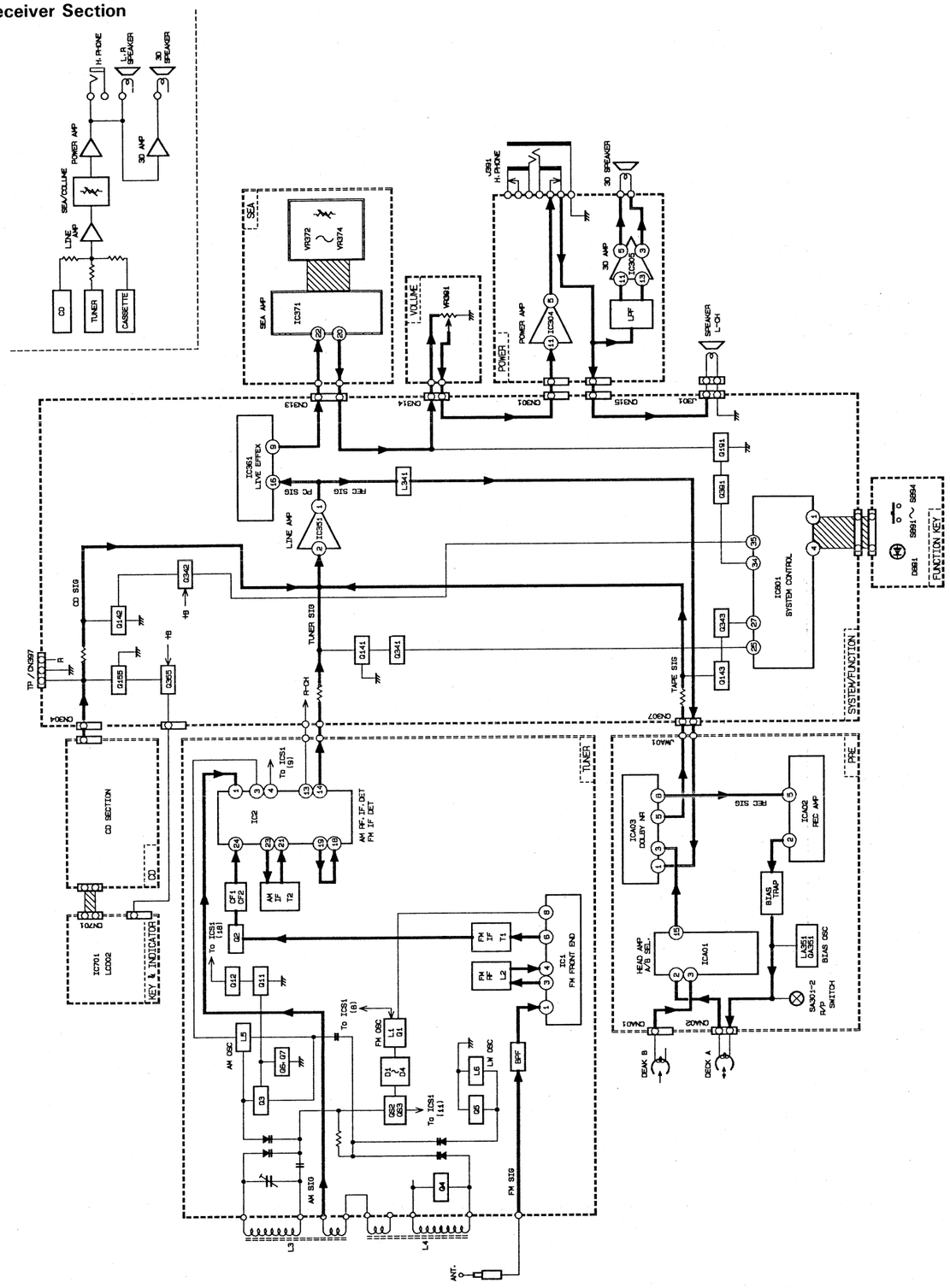



Fig. 4-1

## ■ CD Section

### • Basic Diagram

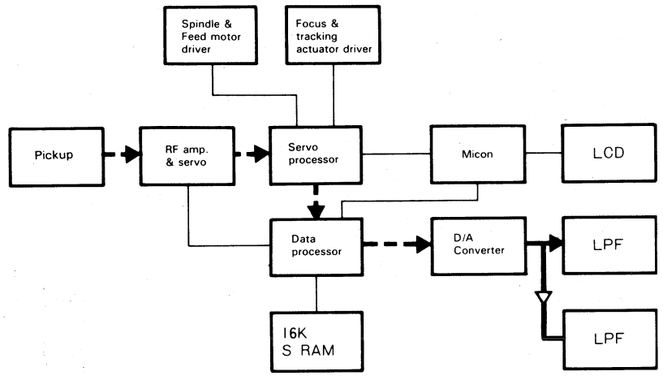
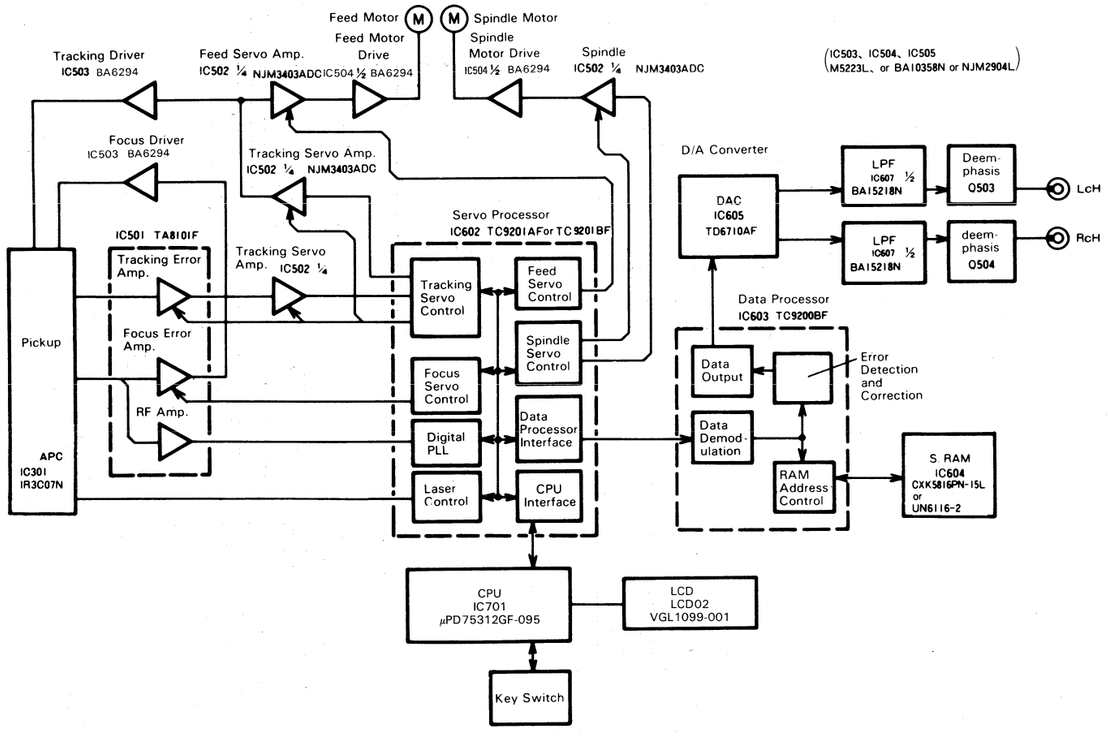



Fig. 4-2

### • Signal Diagram



# 5 Standard Schematic Diagram and Location of P.C. Board ■ Tuner/DTS Circuit

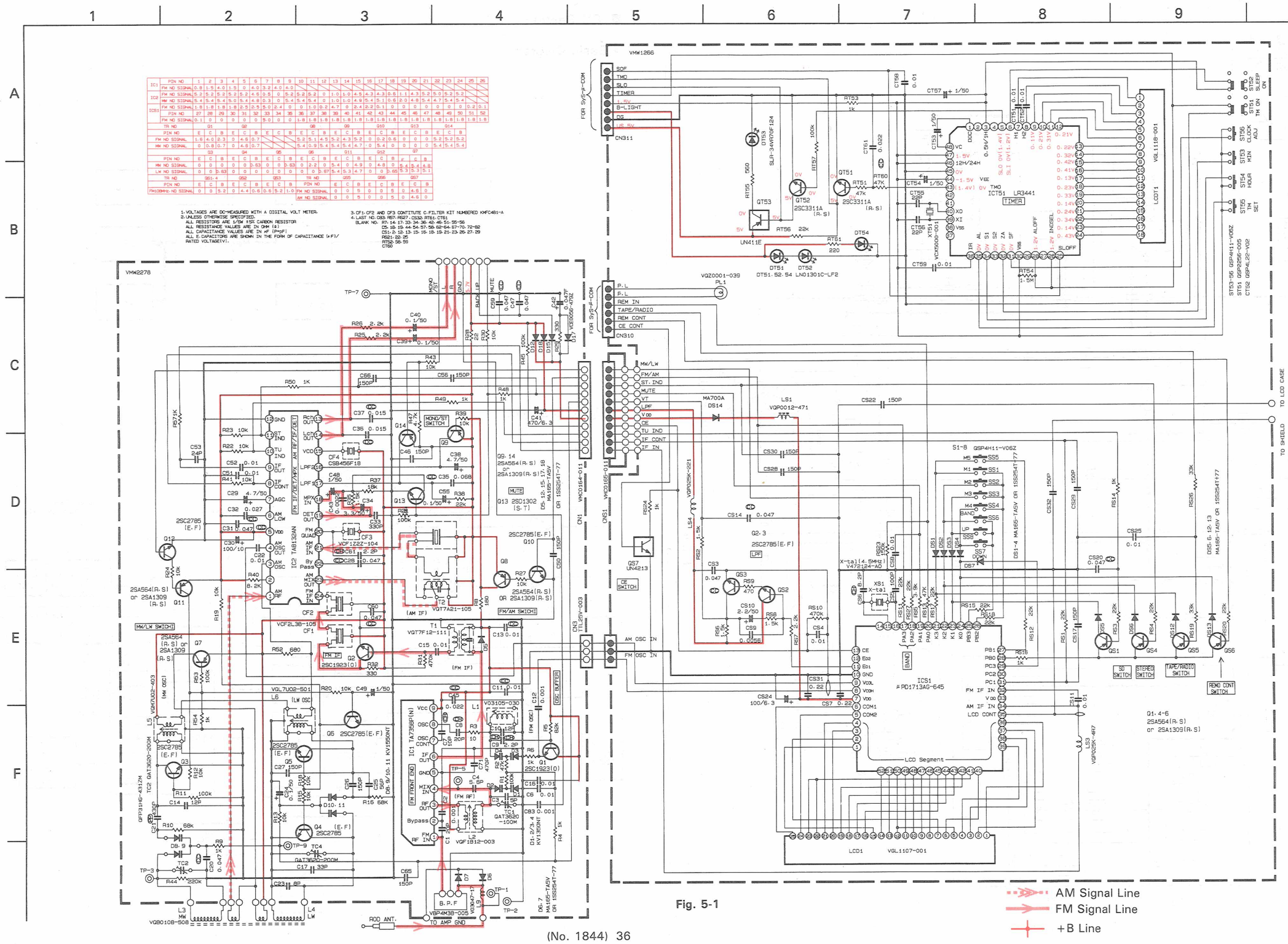



Fig. 5-1

## ■ Tuner Board

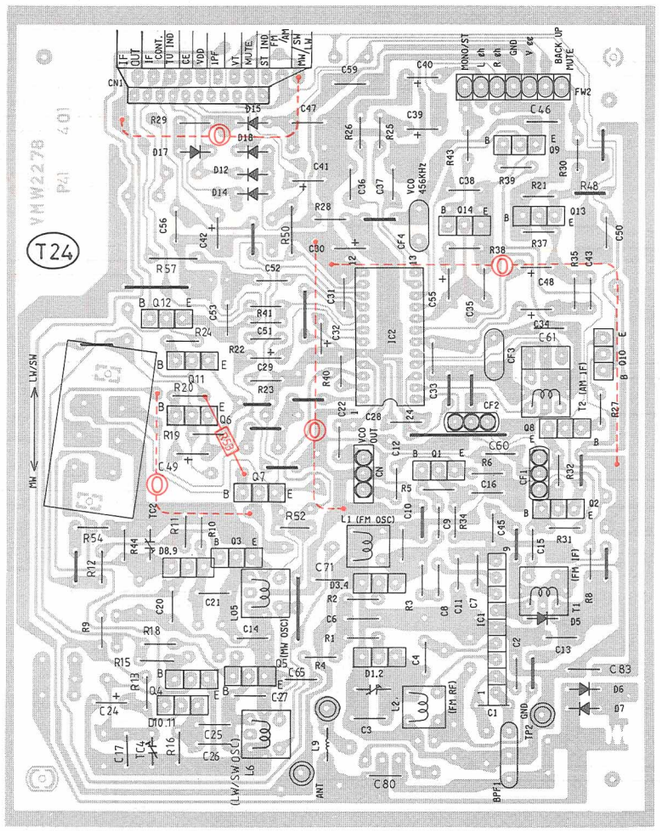



Fig. 5-2

## ■ DTS Board

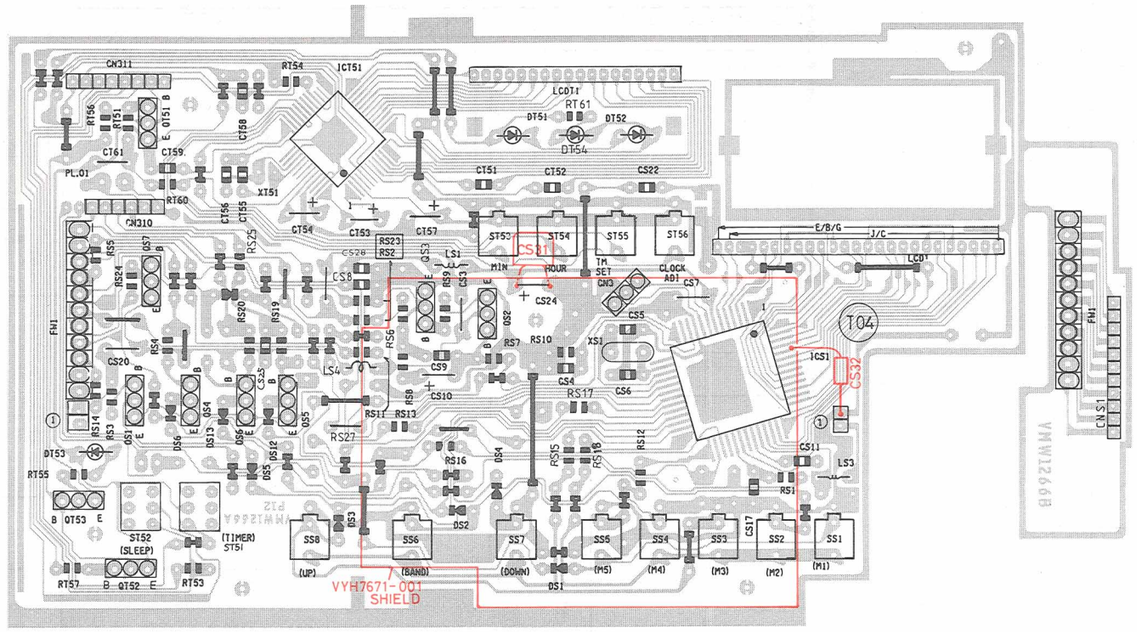



Fig. 5-3

## ■ Power Amplifier Circuit

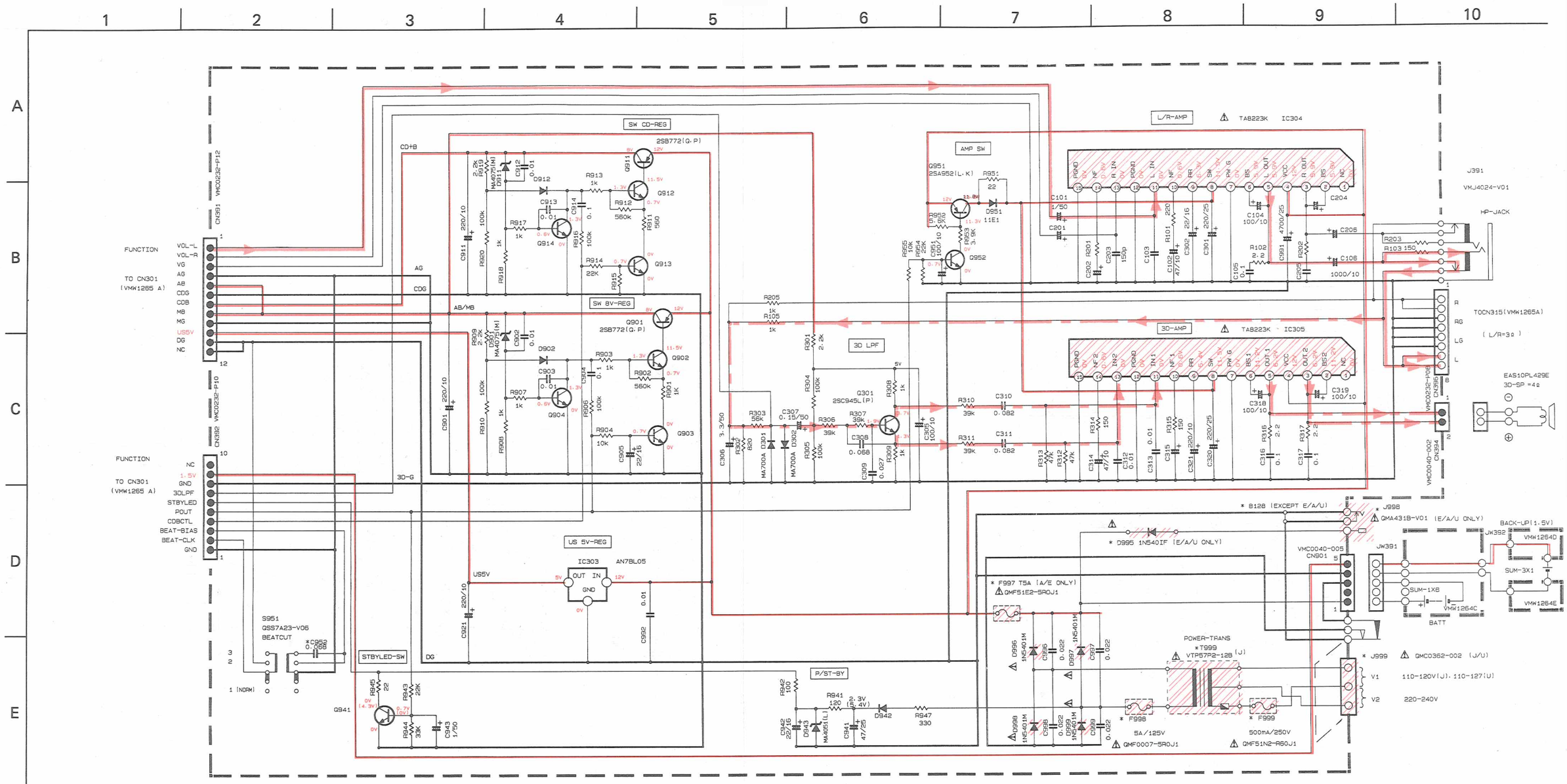
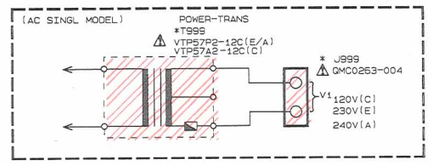



TABLE 1 * MARK PARTS LIST

| REF \ MODEL | J | C | U | A | E |
|---|---|---|---|---|---|
| F996 | NO USE | NO USE | NO USE | NO USE | NO USE |
| F997 | NO USE | NO USE | NO USE | QMF51E2-5R0J1 | QMF51E2-5R0J1 |
| F998 | QMF0007-5R0J1 | QMF0007-5R0J1 | QMF0007-5R0J1 | QMF51E2-5R0J1 | QMF51E2-5R0J1 |
| F999 | QMF51N2-R60J1 | NO USE | QMF51N2-R60J1 | NO USE | NO USE |
| T999 | VTP57P2-128 | VTP57A2-12C | VTP57P2-12H | VTP57P2-12C | VTP57P2-12C |
| J999 | QMC0362-002 | QMC0263-004 | QMC0362-002 | QMC0263-004 | QMC0263-004 |
| J998 | NO USE | NO USE | USE | USE | USE |
| D995 | NO USE | NO USE | USE | USE | USE |
| B128 | USE | USE | NO USE | NO USE | NO USE |
| C952 | NO USE | NO USE | NO USE | USE | USE |
| POWER CORD | QMP1230-183 | QMP1930-183 | QMP7350-150 | QMP2530-183 | QMP3950-183 |

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION —— TAPE MODE · A B MECHA PLAY.
2. UNLESS OTHERWISE SPECIFIED · RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA165 OR 1SS133T.
   ALL NPN TRANSISTORS ARE 2SC1685(R,S) OR 2SC3311(R,S).
   ALL PNP TRANSISTORS ARE 2SB772(Q,P).
   (CF) UNFLAMMABLE CARBON RESISTOR.
   (MF) METAL FILM RESISTOR.
   (OF) OXIDE METAL FILM RESISTOR.
   (LL) ± 20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR.
   (NP) NON-POLARISED ELECTROLYTIC CAPACITOR.
   (PP) POLYPROPYLENE CAPACITOR.
   (PS) POLYSTYROL CAPACITOR.




3D Signal
+B Line
Audio Signal

⚠ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 5-4

## ■ Power Amplifier Board

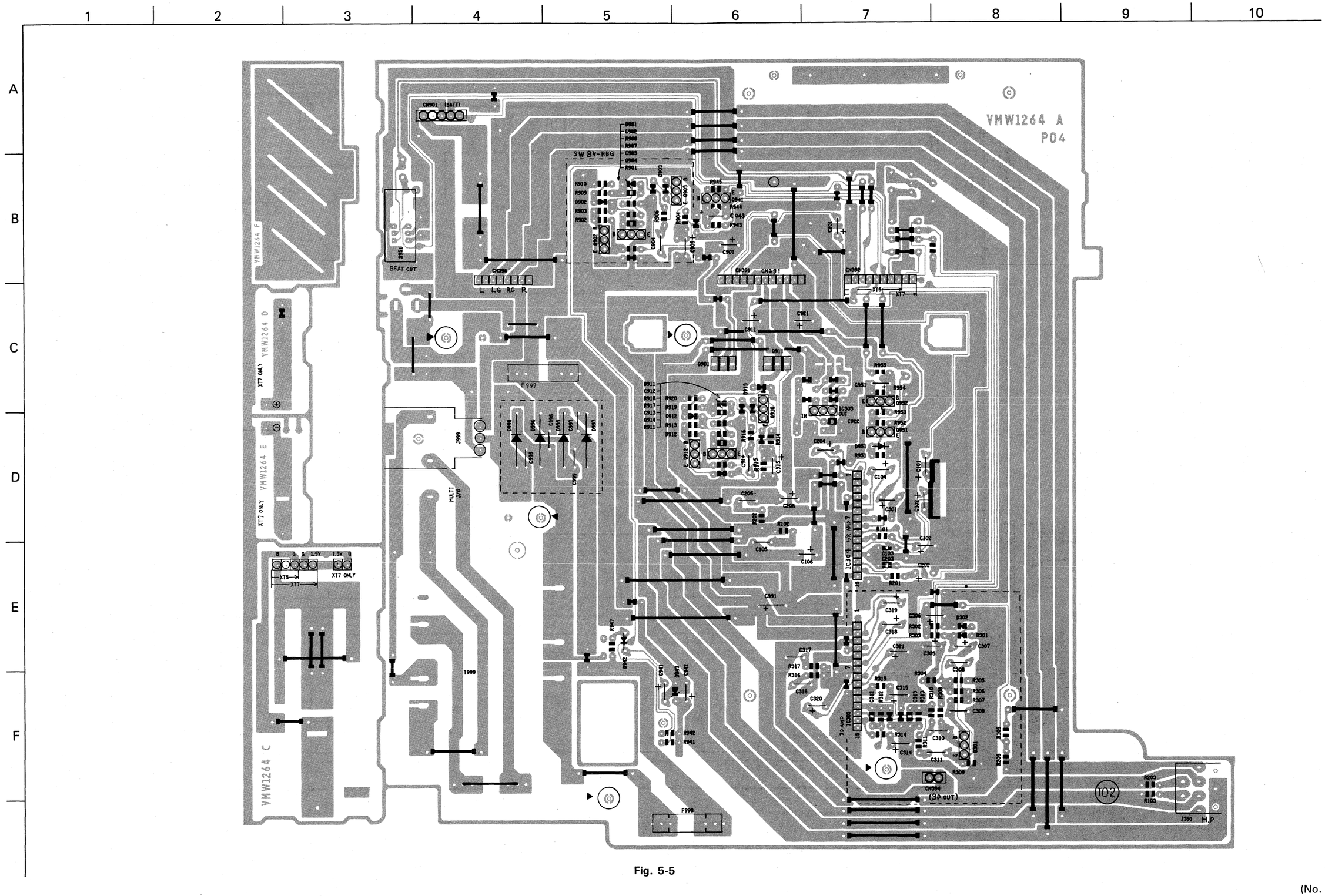
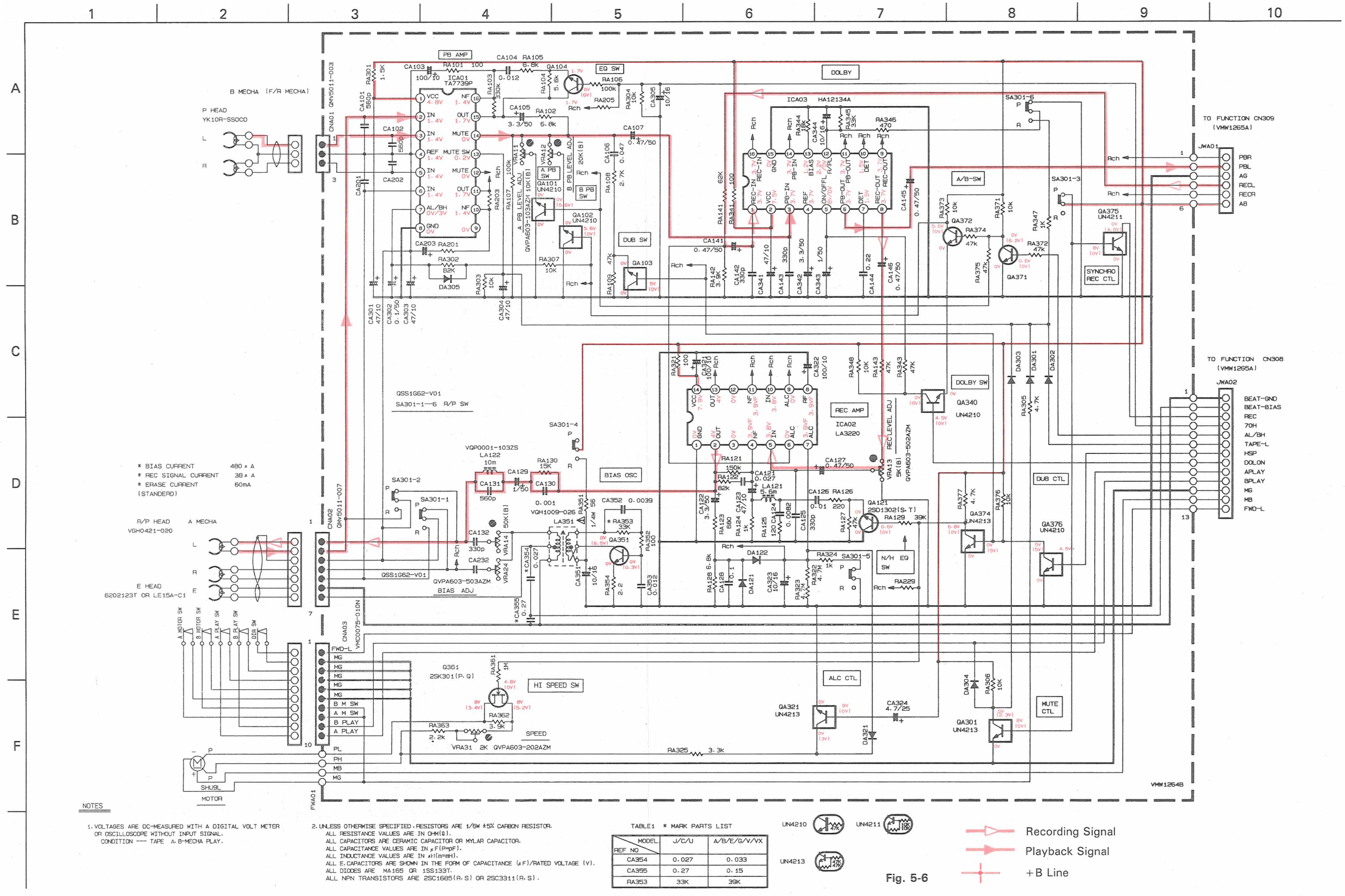



Fig. 5-5

## ■ Preamplifier Board




NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- TAPE A.B-MECHA PLAY.

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/5W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA165 OR 1SS133T.
   ALL NPN TRANSISTORS ARE 2SC1685(R.S) OR 2SC3311(R.S).

TABLE1 * MARK PARTS LIST

| MODEL / REF NO | J/C/U | A/B/E/G/V/VX |
|---|---|---|
| CA354 | 0.027 | 0.033 |
| CA355 | 0.27 | 0.15 |
| RA353 | 33K | 39K |

UN4210 UN4211 UN4213

Recording Signal
Playback Signal
+B Line

Fig. 5-6

## ■ Pre Amplifier Board

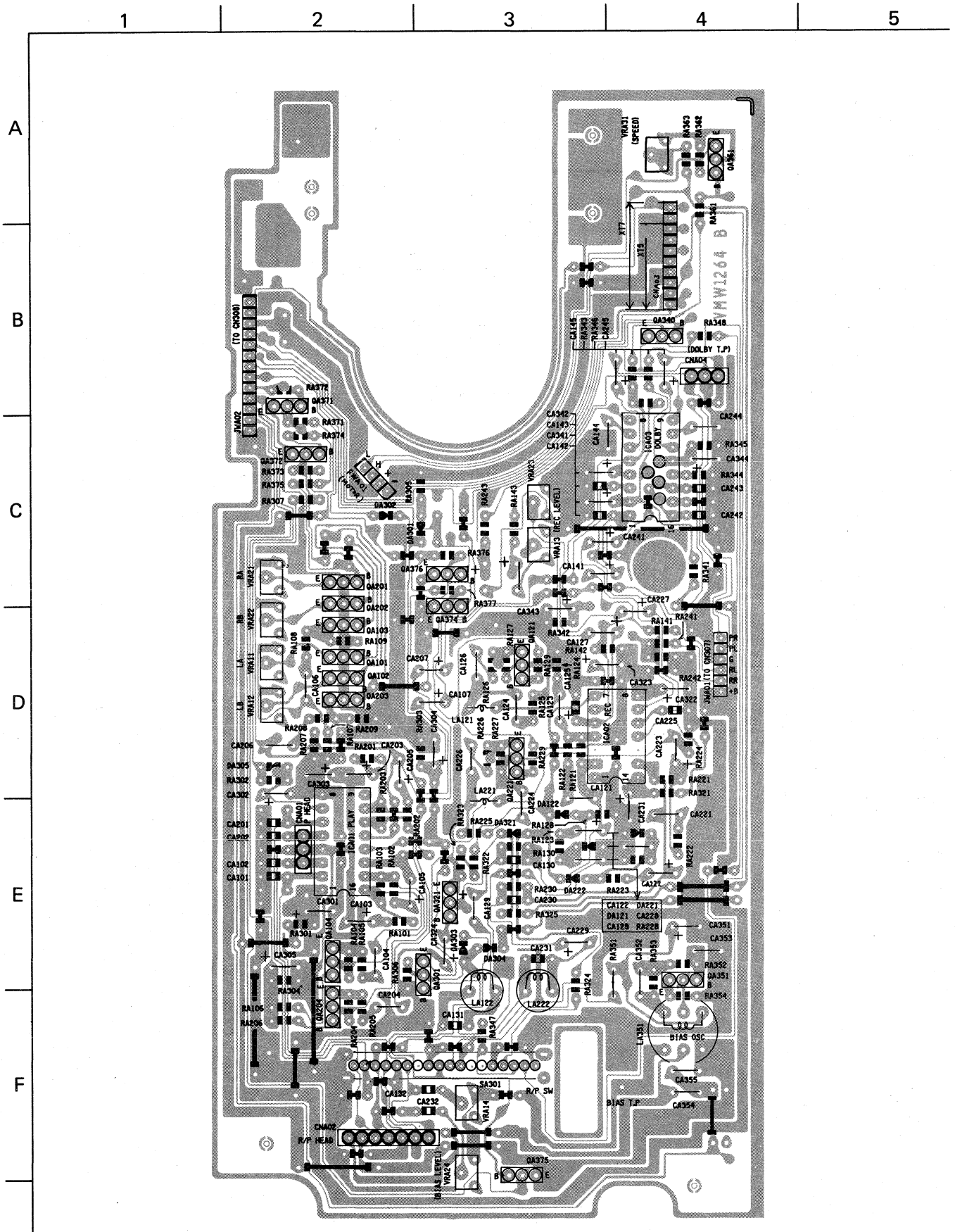



Fig. 5-7

## CD Control Circuit

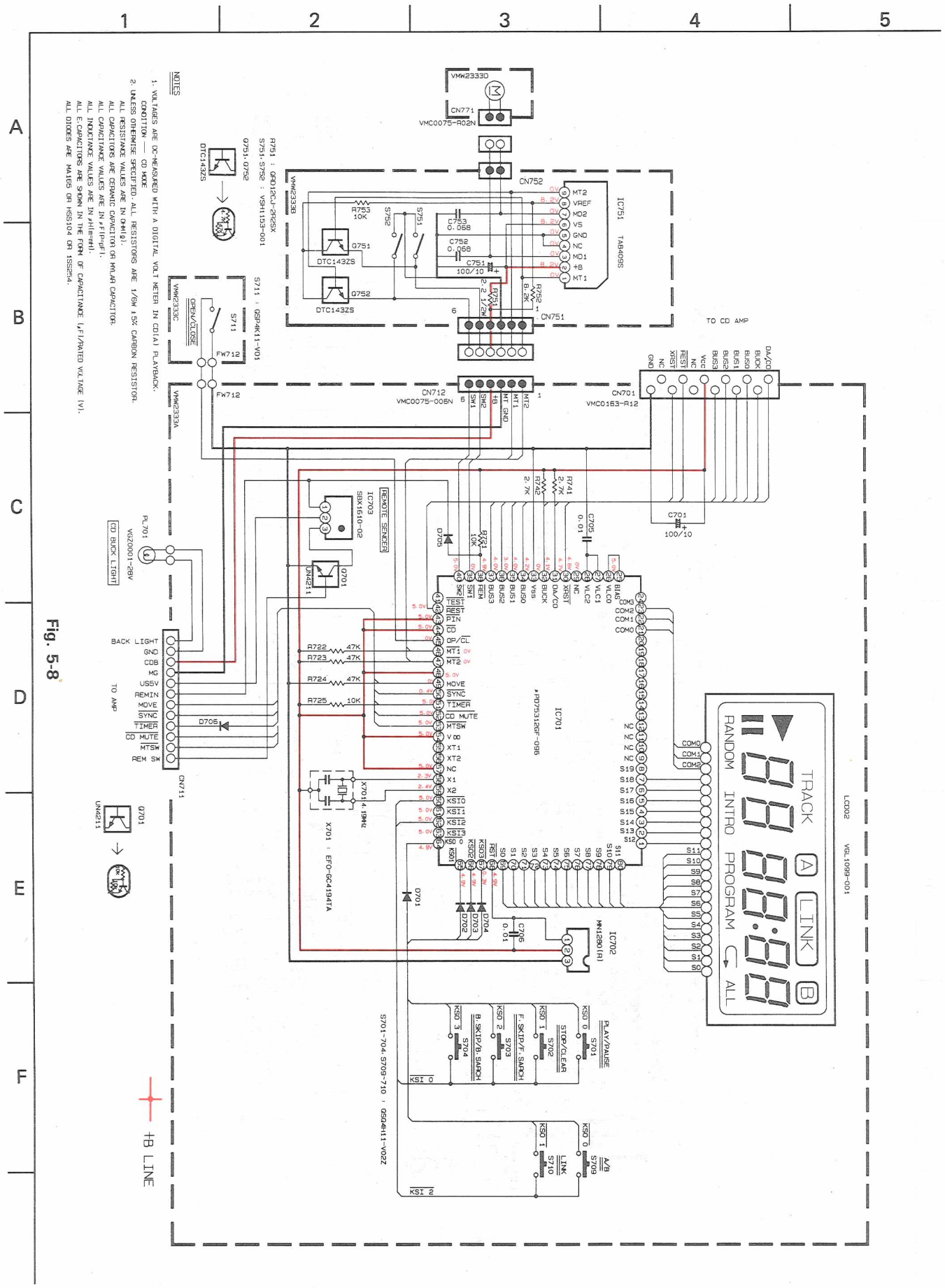



Fig. 5-8

## ■ CD Control Board

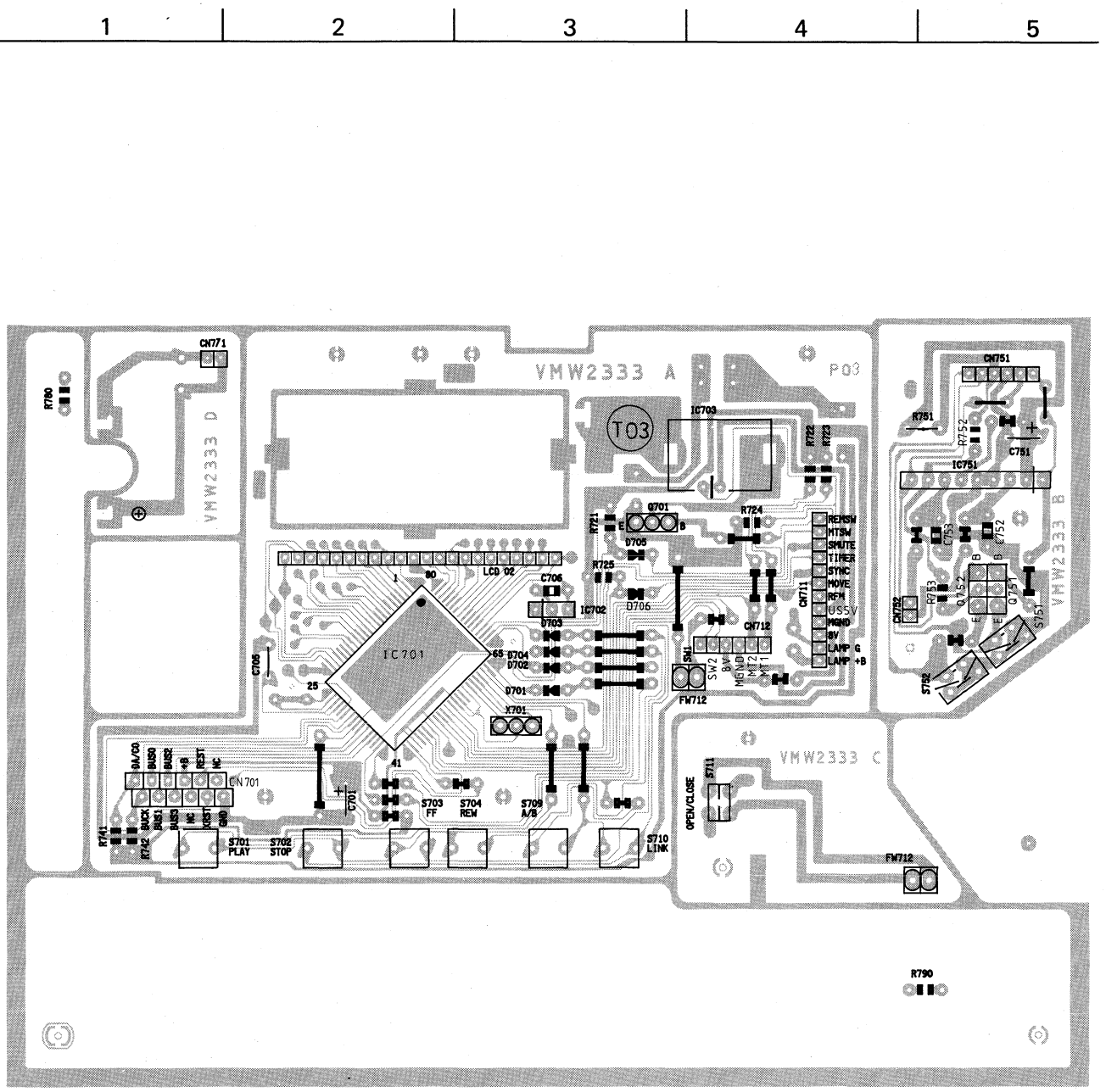



Fig. 5-9

## ■ CD Amplifier Board

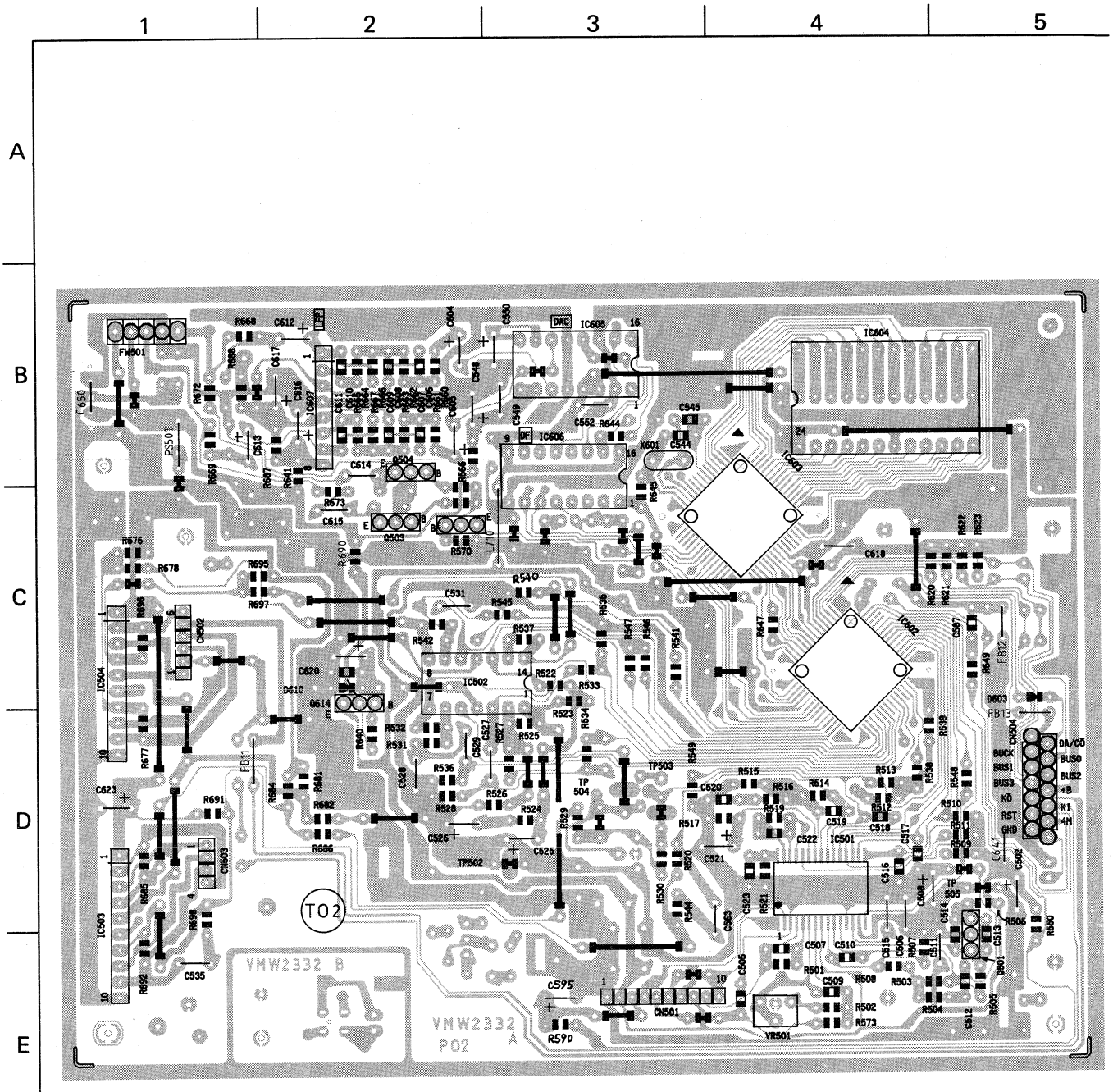
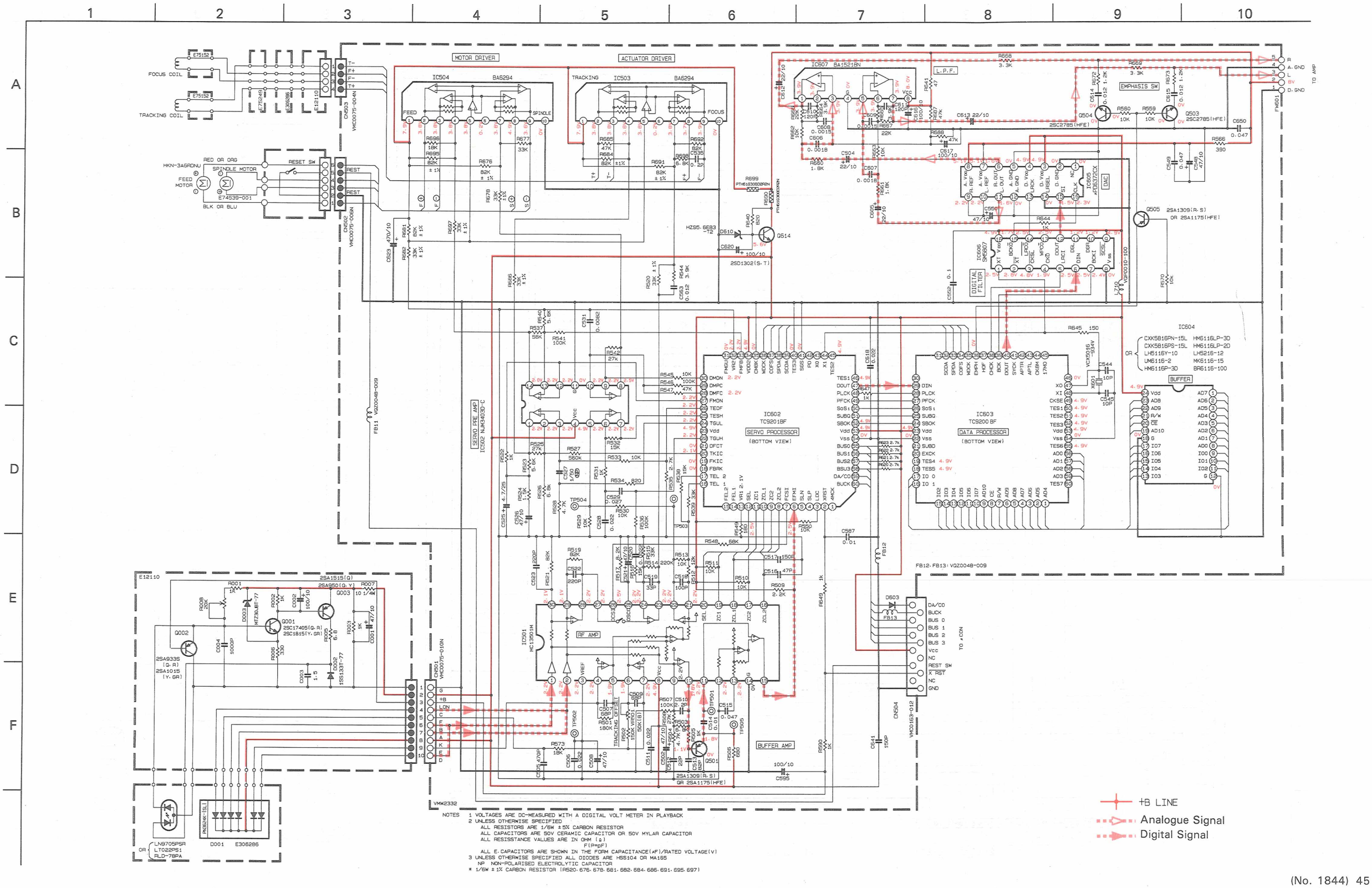


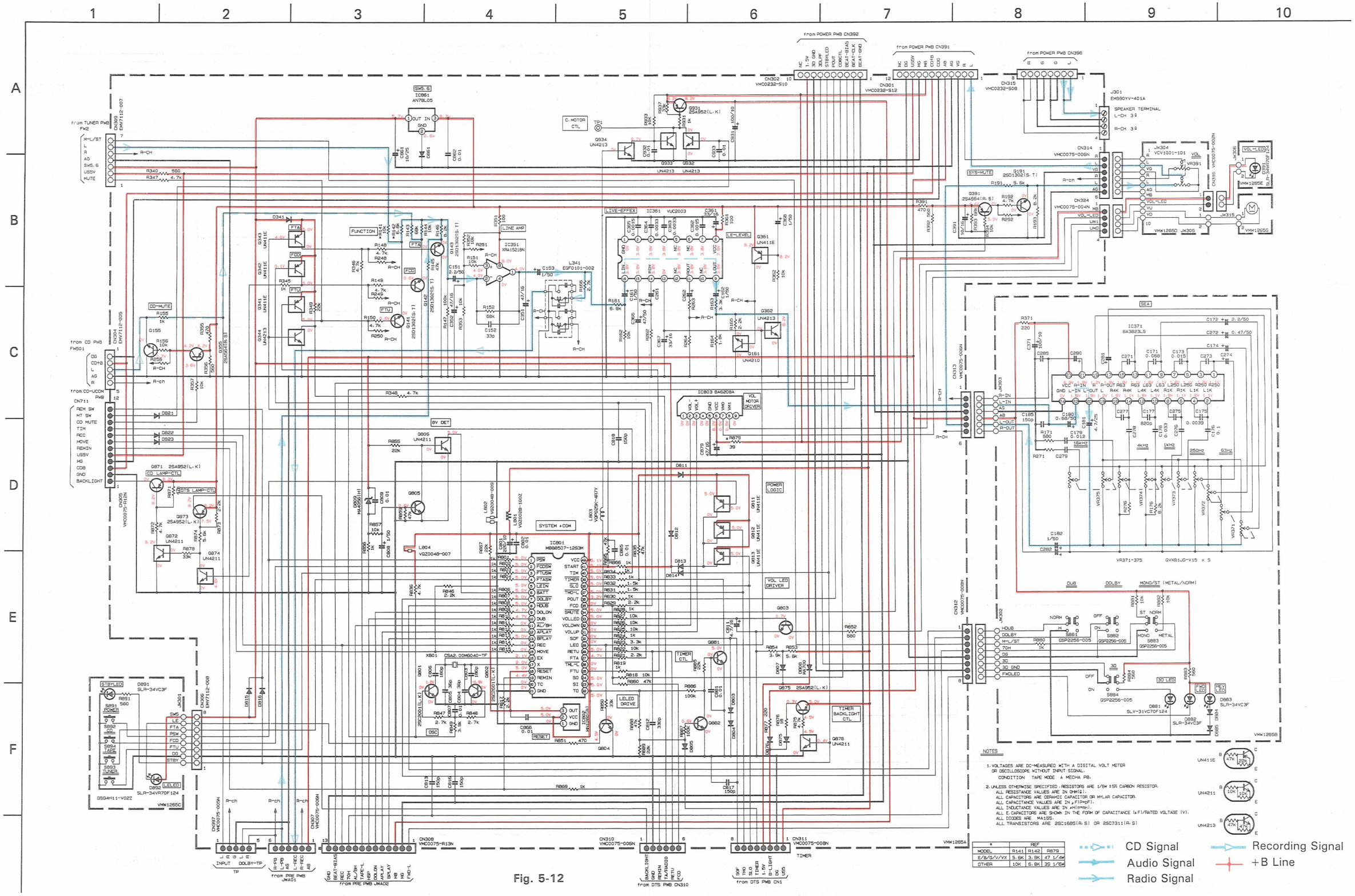

Fig. 5-10

## ■ CD Amplifier Circuit




NOTES 1 VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
2 UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR
ALL RESISSTANCE VALUES ARE IN OHM (Ω)
F(PmpF)
ALL E-CAPACITORS ARE SHOWN IN THE FORM CAPACITANCE(μF)/RATED VOLTAGE(V)
3 UNLESS OTHERWISE SPECIFIED ALL DIODES ARE HSS104 OR MA165
NP NON-POLARISED ELECTROLYTIC CAPACITOR
* 1/6W ±1% CARBON RESISTOR (R520·676·678·681·682·684·686·691·695·697)

## ■ Function Circuit




| * | REF | |
|---|---|---|
| MODEL | R141 | R142 | R879 |
| E/B/G/V/VX | 5.6K | 3.9K | 47 1/6W |
| OTHER | 10K | 6.8K | 39 1/6W |

Fig. 5-12

## ■ Function Board

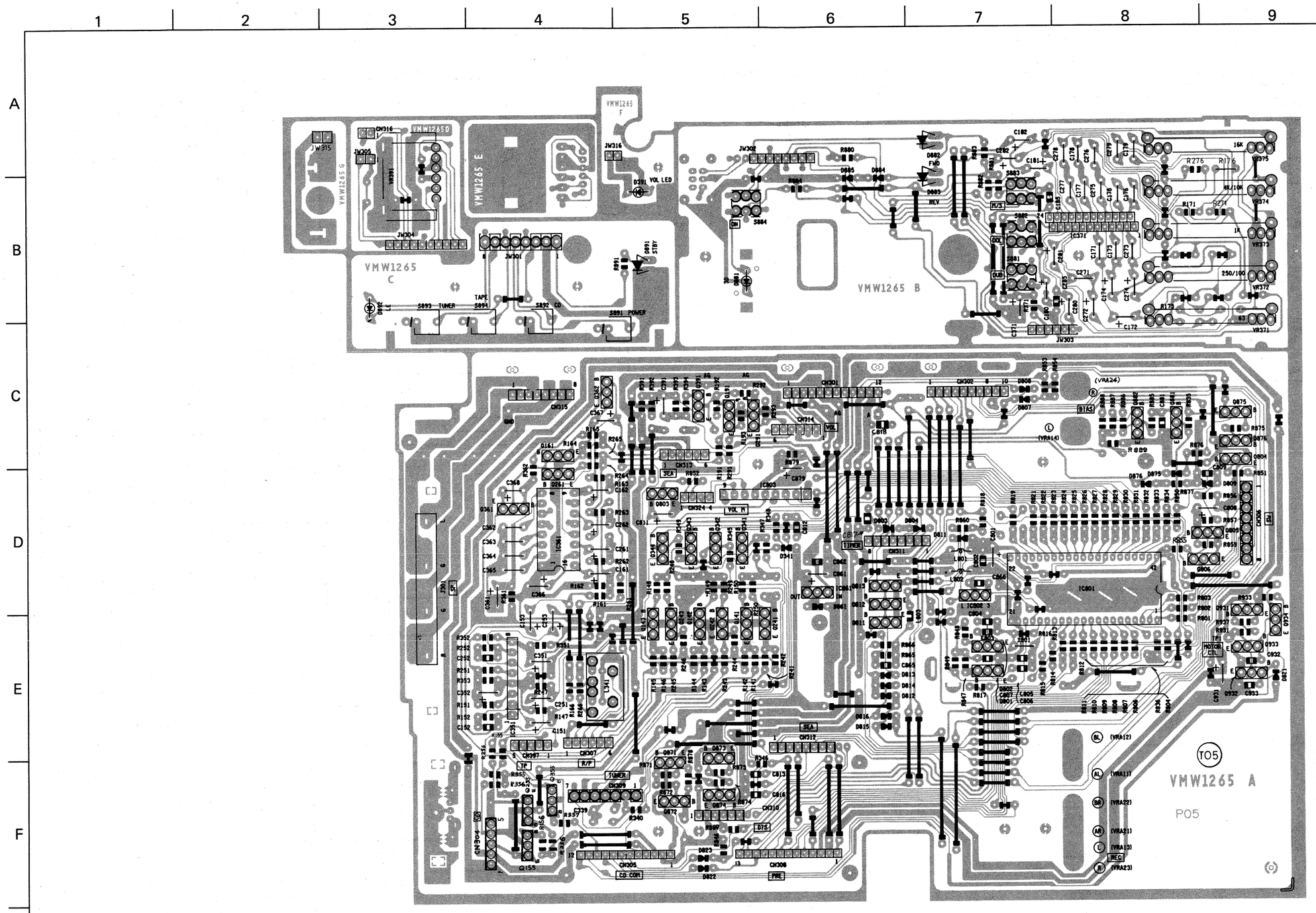
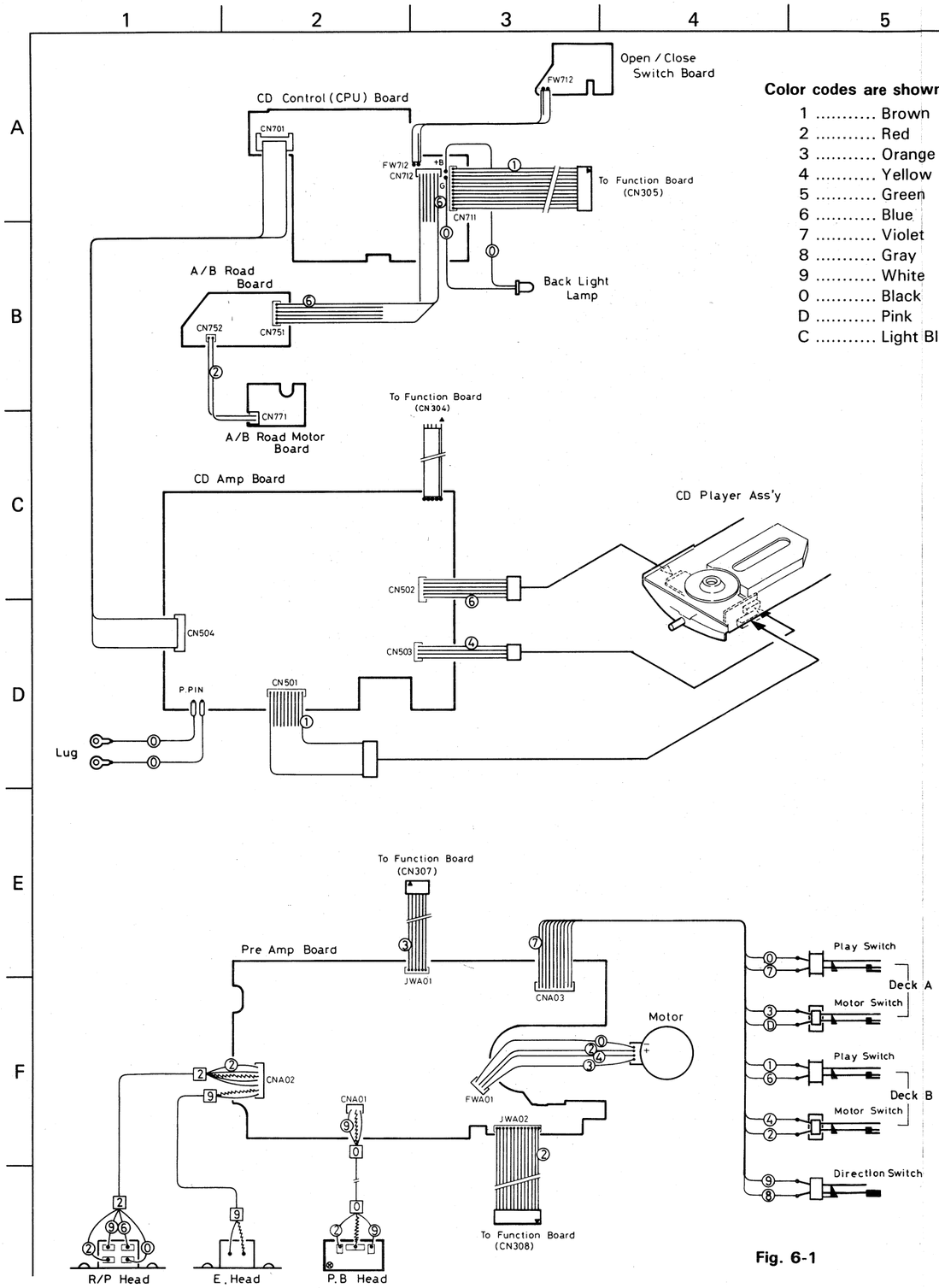



Fig. 5-13

# 6 Wiring Connections

**Color codes are shown below.**

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Gray
9 ..... White
0 ..... Black
D ..... Pink
C ..... Light Blue



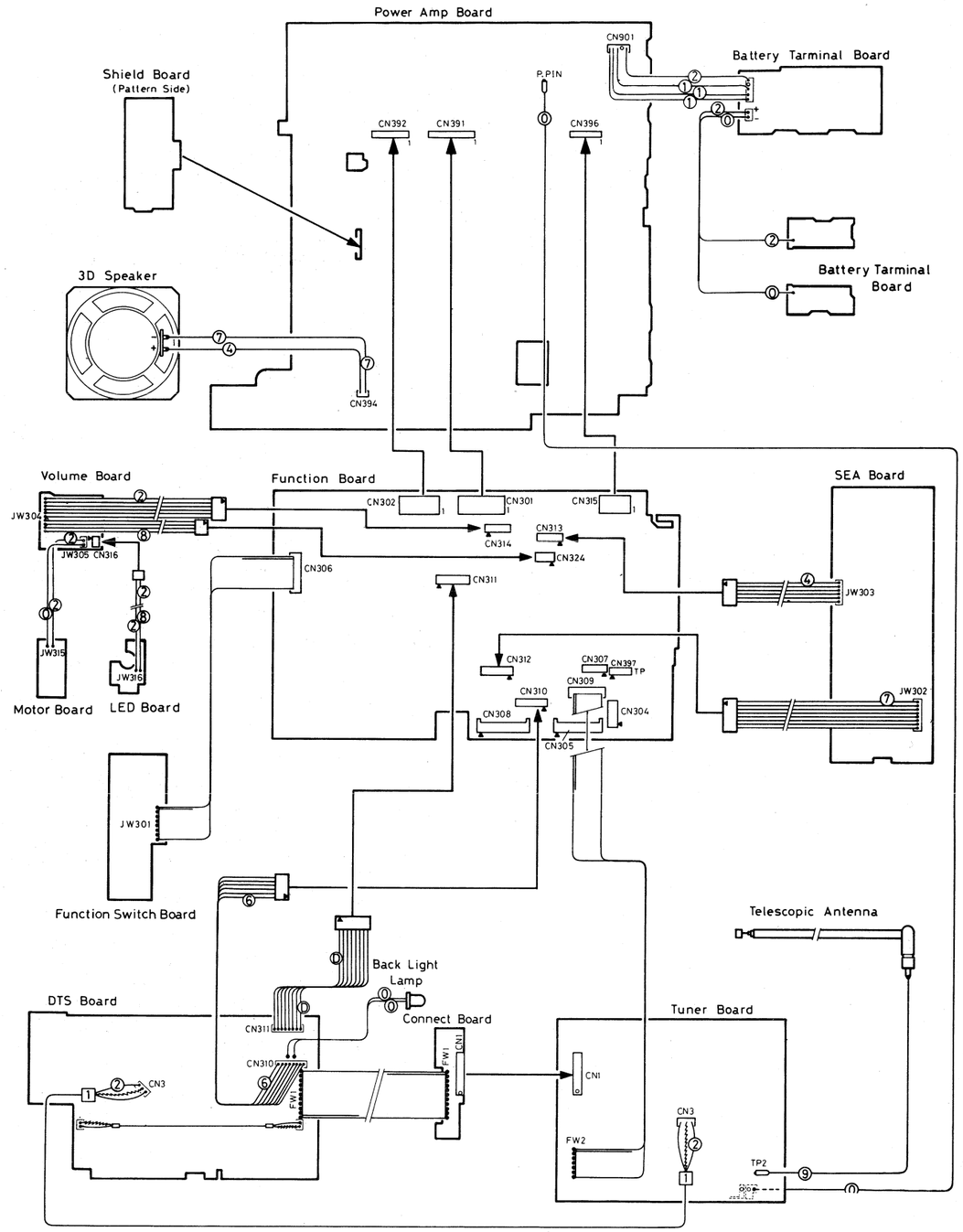




**Fig. 6-1**

## • Tuner Board Parts List

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | BPF | VBP4M3B-005 | BP FILTER | | |
| | CF01 | VCF2L3B-105 | CERAMIC FILTER | | |
| | CF02 | VCF2L3B-105 | CERAMIC FILTER | | |
| | CF03 | VCF1Z2Z-104 | CERAMIC FILTER | | |
| | CF04 | CSB456F18 | CERA LOCK | | |
| | CN01 | VMC0164-011 | CONNECTOR | | |
| | CN03 | TTL25V-003 | CONNECTOR | | |
| | C001 | QCS11HJ-200 | C CAPACITOR | 20PF 5% 50V | |
| | C002 | QCBB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | C003 | QCS11HJ-5R0 | C CAPACITOR | 5.0PF 5% 50V | |
| | C004 | QCSB1HK-5R6Y | C CAPACITOR | 5.6PF 10% 50V | |
| | C006 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C007 | QCT30CH-100Y | C CAPACITOR | 10PF 5% 50V | |
| | C008 | QCT30CH-200Y | C CAPACITOR | 20PF 5% 50V | |
| | C009 | QCT30CH-2R2Y | C CAPACITOR | 2.2PF 5% 50V | |
| | C010 | QCT30CH-120Y | C CAPACITOR | 12PF 5% 50V | |
| | C011 | QCC11EM-103V | C CAPACITOR | .010MF 20% 25V | |
| | C012 | QCBB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | C013 | QCC11EM-103V | C CAPACITOR | .010MF 20% 25V | |
| | C014 | QCS11HJ-120 | C CAPACITOR | 12PF 5% 50V | |
| | C015 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C016 | QCF11HP-103 | C CAPACITOR | .010MF +100:-0% | |
| | C017 | QCS11HJ-330 | C CAPACITOR | 33PF 5% 50V | |
| | C020 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C021 | QFP31HG-431ZM | PP CAPACITOR | 430PF 2% 50V | |
| | C022 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C023 | QCS11HJ-8R0 | C CAPACITOR | 8.0PF 5% 50V | |
| | C024 | QER41HM-104 | E CAPACITOR | .10MF 20% 50V | |
| | C025 | QCS11HJ-560 | C.CAPACITOR | 56PF 5% 50V | |
| | C026 | QCS11HJ-151 | C CAPACITOR | 150PF 5% 50V | |
| | C027 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C028 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C029 | QETC1HM-475ZN | E CAPACITOR | 4.7MF 20% 50V | |
| | C030 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C031 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C032 | QCC31EM-273ZV | C CAPACITOR | .027MF 20% 25V | |
| | C033 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | C034 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | C035 | QCC11EM-683V | C CAPACITOR | .068MF 20% 25V | |
| | C036 | QCC31EM-153ZV | C.CAPACITOR | .015MF 20% 25V | |
| | C037 | QCC31EM-153ZV | C.CAPACITOR | .015MF 20% 25V | |
| | C038 | QETC1HM-475ZN | E CAPACITOR | 4.7MF 20% 50V | |
| | C039 | QETC1HM-104ZN | E CAPACITOR | .10MF 20% 50V | |
| | C040 | QETC1HM-104ZN | E CAPACITOR | .10MF 20% 50V | |
| | C041 | QETC0JM-477ZN | E CAPACITOR | 470MF 20% 6.3V | |
| | C042 | VCE0056-479Z | SUPER CAP. | | |
| | C043 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C045 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | C046 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C047 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C048 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C049 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C050 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C051 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C052 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C053 | QCS11HJ-240 | C CAPACITOR | 24PF 5% 50V | |
| | C055 | QETC1HM-104ZN | E CAPACITOR | .10MF 20% 50V | |
| | C056 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C059 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C060 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C061 | QCT30CH-2R2Y | C CAPACITOR | 2.2PF 5% 50V | |
| | C065 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C066 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C071 | QCBB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |
| | C080 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C083 | QCBB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | D001 | KV1350NT | VARI CAP | FM | |
| | D002 | KV1350NT | VARI CAP | FM | |
| | D003 | KV1350NT | VARI CAP | FM | |
| | D004 | KV1350NT | VARI CAP | FM | |
| | D005 | MA165 | SI.DIODE | | |
| | D006 | MA165 | SI.DIODE | | |
| | D007 | MA165 | SI.DIODE | | |
| | D008 | KV1550NTA | VARI.CAPACITOR | MW | |
| | D009 | KV1550NTA | VARI.CAPACITOR | MW | |
| | D010 | KV1550NTA | VARI.CAPACITOR | LW | |
| | D011 | KV1550NTA | VARI.CAPACITOR | LW | |
| | D012 | MA165 | SI.DIODE | | |
| | D015 | MA165 | SI.DIODE | | |
| | D017 | MA165 | SI.DIODE | | |
| | D018 | MA165 | SI.DIODE | | |
| | IC01 | TA7358P(N) | IC | | |
| | IC02 | TA8132AN | IC | | |
| | L001 | V03105-030 | OSC COIL | FM | |
| | L002 | VQF1B12-003 | RF COIL | FM | |
| | L003 | VQB010B-508 | F COAR ANTENNA | MW/LW | |
| | L004 | VQB010B-508 | F COAR ANTENNA | MW/LW | |
| | L005 | VQM7U02-403 | OSC COIL(MW) | MW | |
| | L006 | VQL7U02-501 | OSC COIL(LW) | | |
| | L009 | V03047-17 | COIL | | |
| | Q001 | 2SC1923(O) | TRANSISTOR | | |
| | Q002 | 2SC1923(O) | TRANSISTOR | | |
| | Q003 | 2SC2785 | TRANSISTOR | | |
| | Q004 | 2SC2785 | TRANSISTOR | | |
| | Q005 | 2SC2785 | TRANSISTOR | | |
| | Q006 | 2SC2785 | TRANSISTOR | | |
| | Q007 | 2SA1309(RS) | TRANSISTOR | | |
| | Q008 | 2SA1309(RS) | TRANSISTOR | | |
| | Q009 | 2SA1309(RS) | TRANSISTOR | | |
| | Q010 | 2SC2785 | TRANSISTOR | | |
| | Q011 | 2SA1309(RS) | TRANSISTOR | | |
| | Q012 | 2SC2785 | TRANSISTOR | | |
| | Q013 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q014 | 2SA1309(RS) | TRANSISTOR | | |
| | R001 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R002 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R003 | QRD161J-100 | CARBON RESISTOR | 10 5% 1/6W | |
| | R004 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R005 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | R006 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R008 | QRD161J-181 | CARBON RESISTOR | 180 5% 1/6W | |
| | R009 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R010 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R011 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R012 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R013 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R015 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R016 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R018 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R019 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R020 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R021 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R022 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R023 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R024 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R025 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R026 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R027 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R028 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| | R029 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| | R030 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R031 | QRD161J-474 | CARBON RESISTOR | 470K 5% 1/6W | |
| | R032 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| | R035 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| | R037 | QRD161J-183 | C RESISTOR | 18K 5% 1/6W | |
| | R038 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R039 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R040 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R041 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R043 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R044 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| | R045 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R047 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R048 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R049 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R050 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/6W | |
| | R052 | QRD161J-681 | C RESISTOR | 680 5% 1/6W | |
| | R053 | QRD161J-104 | C.RESISTOR | 100K 5% 1/6W | |
| | R054 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R057 | QRD161J-102 | C RESISTOR | 1.0K 5% 1/6W | |
| | TC01 | QAT3001-053 | T CAPACITOR | FM RF | |
| | TC02 | QAT3620-200M | T CAPACITOR | MW RF | |
| | TC02 | QAT3001-053 | T CAPACITOR | FM RF | |
| | TC03 | QAT3620-200M | T CAPACITOR | MW RF | |
| | TC04 | QAT3620-200M | T CAPACITOR | LW RF | |
| | T001 | VQT7F12-111 | IFT | FM | |
| | T002 | VQT7A21-105 | IFT | AM | |

## ● Power & Preamplifier Board Parts List

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CA101 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | CA102 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | CA103 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | CA104 | QFV41HJ-123 | FILM CAPACITOR | .012MF 5% 50V | |
| | CA105 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | CA106 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | CA107 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA121 | QCC31EM-273ZV | C CAPACITOR | .027MF 20% 25V | |
| | CA122 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | CA123 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | CA124 | QCY41HK-822 | C CAPACITOR | 8200PF 10% 50V | |
| | CA125 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA126 | QFV81HJ-103 | FILM CAPACITOR | .010MF 5% 50V | |
| | CA127 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA128 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | CA129 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | CA130 | QCBB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | CA131 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | CA132 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA141 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA142 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA143 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA144 | QFV41HJ-224 | TF CAPACITOR | .22MF 5% 50V | |
| | CA145 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA146 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA201 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | CA202 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | CA203 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | CA204 | QFV41HJ-123 | FILM CAPACITOR | .012MF 5% 50V | |
| | CA205 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | CA206 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | CA207 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA221 | QCC31EM-273ZV | C CAPACITOR | .027MF 20% 25V | |
| | CA222 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | CA223 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | CA224 | QCY41HK-822 | C CAPACITOR | 8200PF 10% 50V | |
| | CA225 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA226 | QFV81HJ-103 | FILM CAPACITOR | .010MF 5% 50V | |
| | CA227 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA228 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | CA229 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | CA230 | QCBB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | CA231 | QCBB1HK-561Y | C CAPACITOR | 560PF 10% 50V | |
| | CA232 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA241 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA242 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA243 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | CA244 | QFV41HJ-224 | TF CAPACITOR | .22MF 5% 50V | |
| | CA245 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA246 | QETC1HM-474ZN | E CAPACITOR | .47MF 20% 50V | |
| | CA301 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | CA302 | QETC1CM-106ZN | E CAPACITOR | 10MF 20% 16V | |
| | CA303 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | CA304 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | CA305 | QETC1CM-106ZN | E CAPACITOR | 10MF 20% 16V | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CA321 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | CA322 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | CA323 | QETC1CM-106ZN | E CAPACITOR | 10MF 20% 16V | |
| | CA324 | QETC1EM-475ZM | E.CAPACITOR | 4.7MF 20% 25V | |
| | CA341 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | CA342 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | CA343 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | CA344 | QETC1CM-106ZN | E CAPACITOR | 10MF 20% 16V | |
| | CA351 | QETC1CM-106ZN | E CAPACITOR | 10MF 20% 16V | |
| | CA352 | QFN41HJ-392 | M CAPACITOR | 3900PF 5% 50V | |
| | CA353 | QCC11EM-123 | C CAPACITOR | .012MF 20% 25V | |
| | CA354 | QFV41HJ-333 | TF CAPACITOR | .033MF 5% 50V | |
| | CA355 | QFV71HJ-154ZM | TF CAPACITOR | .15MF 5% 50V | |
| | CNA01 | QMV5011-003 | CONNECTOR | PB MECHA | |
| | CNA02 | QMV5011-007 | CONNECTOR | R/P MECHA | |
| | CNA03 | VMC0075-010N | CONNECTOR | MOTOR | |
| | CN391 | VMC0232-P12 | CONNECTOR | FUNCTION 12P | |
| | CN392 | VMC0232-P10 | CONNECTOR | FUNCTION 10P | |
| | CN394 | VMC0040-002 | CONNECTOR | 3D SP | |
| | CN396 | VMC0232-P08 | CONNECTOR | SPK | |
| | CN901 | VMC0040-005 | CONECTOR | BATT | |
| | C101 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C102 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C103 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C104 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C105 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C106 | QETC1AM-108ZN | E CAPACITOR | 1000MF 20% 10V | |
| | C201 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C202 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C203 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C204 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C205 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C206 | QETC1AM-108ZN | E CAPACITOR | 1000MF 20% 10V | |
| | C301 | QETC1EM-227ZN | E CAPACITOR | 220MF 20% 25V | |
| | C302 | QETC1CM-226ZN | E CAPACITOR | 22MF 20% 16V | |
| | C305 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C306 | QETC1HM-335ZN | E CAPACITOR | 3.3MF 20% 50V | |
| | C307 | QETC1HM-154Z | E CAPACITOR | .15MF 20% 50V | |
| | C308 | QFV81HJ-683 | TF.CAPACITOR | .068MF 5% 50V | |
| | C309 | QFV71HJ-273ZM | TF.CAPACITOR | .027MF 5% 50V | |
| | C310 | QCC31EM-823ZV | C CAPACITOR | .082MF 20% 25V | |
| | C311 | QCC31EM-823ZV | C CAPACITOR | .082MF 20% 25V | |
| | C312 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C313 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C314 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C315 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C316 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C317 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C318 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C319 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C320 | QETC1EM-227ZN | E CAPACITOR | 220MF 20% 25V | |
| | C321 | QETC1AM-227ZN | E CAPACITOR | 220MF 20% 10V | |
| | C901 | QETC1AM-227ZN | E CAPACITOR | 220MF 20% 10V | |
| | C902 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C903 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C904 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C905 | QETC1HM-475ZN | E CAPACITOR | 4.7MF 20% 50V | |
| | C911 | QETC1AM-227ZN | E CAPACITOR | 220MF 20% 10V | |
| | C912 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C913 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C914 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C915 | QETC1HM-475ZN | E CAPACITOR | 4.7MF 20% 50V | |
| | C921 | QETC1AM-227ZN | E CAPACITOR | 220MF 20% 10V | |
| | C922 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C941 | QETC1EM-476ZN | E CAPACITOR | 47MF 20% 25V | |
| | C942 | QETC1CM-226ZN | E CAPACITOR | 22MF 20% 16V | |
| | C943 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C951 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C952 | QFV81HJ-683 | TF.CAPACITOR | .068MF 5% 50V | |
| | C991 | QETB1EM-478E | E.CAPACITOR | 4700MF 20% 25V | |
| | C996 | QCF11HP-223 | C CAPACITOR | .022MF +100:-0% | |
| | C997 | QCF11HP-223 | C CAPACITOR | .022MF +100:-0% | |
| | C998 | QCF11HP-223 | C CAPACITOR | .022MF +100:-0% | |
| | C999 | QCF11HP-223 | C CAPACITOR | .022MF +100:-0% | |
| | DA121 | MA165 | SI DIODE | | |
| | DA122 | MA165 | SI DIODE | | |
| | DA221 | MA165 | SI DIODE | | |
| | DA222 | MA165 | SI DIODE | | |
| | DA301 | MA165 | SI DIODE | | |
| | DA302 | MA165 | SI DIODE | | |
| | DA303 | MA165 | SI DIODE | | |
| | DA304 | MA165 | SI DIODE | | |
| | DA305 | MA165 | SI DIODE | | |
| | DA321 | MA165 | SI DIODE | | |
| | D301 | MA700A | S.B.DIODE | | |
| | D302 | MA700A | S.B.DIODE | | |
| | D901 | MA4075(M) | ZENER DIODE | | |
| | D902 | MA165 | SI DIODE | | |
| | D911 | MA4075(M) | ZENER DIODE | | |
| | D912 | MA165 | SI DIODE | | |
| | D942 | MA165 | SI DIODE | | |
| | D943 | MA4051(L) | ZENER DIODE | | |
| | D951 | 1SR35-100 | SI DIODE | | |
| | D996 | 1N5401M | DIODE | | |
| | D997 | 1N5401M | DIODE | | |
| | D998 | 1N5401M | DIODE | | |
| | D999 | 1N5401M | DIODE | | |
| | FCLIP | VMZ0087-001Z | FUSE HOLDER | FOR F997 | E |
| | FCLIP | VMZ0087-001Z | FUSE HOLDER | FOR F998 | |
| ⚠ | F997 | QMF51E2-4R0J1 | FUSE | FOR DC 4A/250V | E |
| ⚠ | F998 | QMF51E2-5R0J1 | FUSE | 5A/250V | E |
| ⚠ | F998 | QMF51E2-5R0J1BS | FUSE | 5A/250V | B |
| | ICA01 | TA7739P | IC | | |
| | ICA02 | LA3220 | IC | | |
| | ICA03 | HA12134A | IC | | |
| | IC301 | TA8223K | IC | | |
| | IC302 | TA8223K | IC | | |
| | IC303 | AN78L05 | I.C(MONO-ANA) | 5V | |
| | J391 | VMJ4024-001 | JACK | HP JACK | |
| ⚠ | J999 | QMC0263-004 | AC SOCKET | AC JACK | E |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| ⚠ | J999 | QMC0263-004BS | AC SOCKET | AC JACK | B |
| | LA121 | VQP0001-562ZS | INDUCTOR | | |
| | LA122 | VQP0001-103ZS | INDUCTOR | | |
| | LA221 | VQP0001-562ZS | INDUCTOR | | |
| | LA222 | VQP0001-103ZS | INDUCTOR | | |
| | LA351 | VQH1009-026 | OSC COIL | | |
| | QA101 | UN4210 | TRANSISTOR | | |
| | QA102 | UN4210 | TRANSISTOR | | |
| | QA103 | NU4210TA | TRANSISTOR | | |
| | QA104 | 2SC3311(R,S) | TRANSISTOR | | |
| | QA121 | 2SD1302(S,T) | TRANSISTOR | DUB N/H | |
| | QA201 | UN4210 | TRANSISTOR | | |
| | QA202 | UN4210 | TRANSISTOR | | |
| | QA203 | UN4210 | TRANSISTOR | | |
| | QA204 | 2SC3311(R,S) | TRANSISTOR | | |
| | QA221 | 2SD1302(S,T) | TRANSISTOR | DUB N/H | |
| | QA301 | DTC144ES | TRANSISTOR | | |
| | QA321 | UN4213 | TRANSISTOR | | |
| | QA340 | UN4210 | TRANSISTOR | DOLBY SWITCH | |
| | QA351 | 2SC3311(R,S) | TRANSISTOR | | |
| | QA361 | 2SC3311(R,S) | TRANSISTOR | | |
| | QA371 | 2SC3311(R,S) | TRANSISTOR | A/B | |
| | QA372 | 2SC3311(R,S) | TRANSISTOR | A/B | |
| | QA374 | UN4213 | TRANSISTOR | | |
| | QA375 | UN4211 | TRANSISTOR | | |
| | QA376 | UN4210 | TRANSISTOR | | |
| | Q301 | 2SC945L(P,Q) | TRANSISTOR | | |
| | Q901 | 2SB772(Q,P) | TRANSISTOR | | |
| | Q902 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q903 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q904 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q911 | 2SB772(Q,P) | TRANSISTOR | | |
| | Q912 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q913 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q914 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q941 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q951 | 2SA952(L,K) | TRANSISTOR | | |
| | Q952 | 2SC3311(R,S) | TRANSISTOR | | |
| | RA101 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | RA102 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | RA103 | QRD161J-334 | CARBON RESISTOR | 330K 5% 1/6W | |
| | RA104 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | RA105 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | RA106 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | RA107 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | RA108 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | RA109 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA121 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| | RA122 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | RA123 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| | RA124 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RA125 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| | RA126 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | RA127 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA128 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | RA129 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | RA130 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| | RA141 | QRD161J-623 | CARBON RESISTOR | 62K 5% 1/6W | |
| | RA142 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | RA143 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA201 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | RA202 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | RA203 | QRD161J-334 | CARBON RESISTOR | 330K 5% 1/6W | |
| | RA204 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | RA205 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | RA206 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | RA207 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | RA208 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | RA209 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA221 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| | RA222 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | RA223 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| | RA224 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RA225 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| | RA226 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | RA227 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA228 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | RA229 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | RA230 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| | RA241 | QRD161J-623 | CARBON RESISTOR | 62K 5% 1/6W | |
| | RA242 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | RA243 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA301 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| | RA302 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | RA303 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA304 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA305 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | RA306 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA307 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA321 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | RA322 | QRD161J-475 | CARBON RESISTOR | 4.7M 5% 1/6W | |
| | RA323 | QRD161J-475 | CARBON RESISTOR | 4.7M 5% 1/6W | |
| | RA324 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RA325 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| | RA341 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | RA343 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA344 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| | RA345 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | RA346 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | RA347 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RA348 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA351 | QRD14CJ-560SX | C RESISTOR | 56 5% 1/4W | |
| | RA352 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | RA353 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | RA354 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| | RA361 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA362 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | RA363 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | RA371 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA372 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | RA373 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA374 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA375 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RA376 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | RA377 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R101 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R102 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| | R103 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| | R105 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R201 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R202 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| | R203 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| | R205 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R301 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R302 | QRD161J-821 | CARBON RESISTOR | 820 5% 1/6W | |
| | R303 | QRD161J-563 | CARBON RESISTOR | 56K 5% 1/6W | |
| | R304 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R305 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R306 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | R307 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | R308 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R309 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R310 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | R311 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| | R312 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R313 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R314 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| | R315 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| | R316 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| | R317 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| | R901 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R902 | QRD161J-564 | CARBON RESISTOR | 560K 5% 1/6W | |
| | R903 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R904 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R906 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R907 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R908 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R909 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R910 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R911 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R912 | QRD161J-564 | CARBON RESISTOR | 560K 5% 1/6W | |
| | R913 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R914 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R915 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R916 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R917 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R918 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R919 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R920 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R941 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| | R942 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | R943 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R944 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | R945 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| | R947 | QRD161J-331 | CARBON RESISTOE | 330 5% 1/6W | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R951 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| | R952 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R953 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R954 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R955 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | SA301 | QSS1G62-V01 | SLIDE SWITCH | R/P SW | |
| | S951 | QSS7A23-V06 | SLIDE SWITCH | BEAT CUT SW | |
| | VRA11 | QVPA603-103AZM | SEMI.V.RESISITO | A PB | |
| | VRA12 | QVPA603-203AZM | SEMI.V.RESISTOR | B PB | |
| | VRA13 | QVPA603-502AZM | SEMI.V.RESISTOR | REC ADJ | |
| | VRA14 | QVPA603-503AZM | V RESISTOR | BIAS ADJ | |
| | VRA21 | QVPA603-103AZM | SEMI.V.RESISITO | A PB | |
| | VRA22 | QVPA603-203AZM | SEMI.V.RESISTOR | B PB | |
| | VRA23 | QVPA603-502AZM | SEMI.V.RESISTOR | REC ADJ | |
| | VRA24 | QVPA603-503AZM | V RESISTOR | BIAS ADJ | |
| | VRA31 | QVPA603-202AZM | V RESISTOR | MOTOR SPEED | |

## ● DTS Board Parts List

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CNS01 | VMC0165-011 | CONNECTOR | | |
| | CS03 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | CS04 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CS05 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | CS06 | QCT30CH-8R2Y | C.CAPACITOR | 8.2PF 5% 50V | |
| | CS07 | QFV41HJ-224 | TF CAPACITOR | .22MF 5% 50V | |
| | CS08 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CS09 | QCXB1CM-562Y | C CAPACITOR | 5600PF 20% 16V | |
| | CS10 | QER41HM-225 | E CAP | 2.2MF 20% 50V | |
| | CS11 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CS14 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | CS17 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | CS20 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | CS22 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | CS24 | QER60JM-107ZN | E CAP | 100MF 20% 6.3V | |
| | CS25 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CS28 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | CS30 | QCBB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | CS31 | QFV41HJ-224 | TF CAPACITOR | .22MF 5% 50V | |
| | CS32 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | CT51 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CT52 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CT53 | QER41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | CT54 | QER41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | CT55 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | CT56 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | CT57 | QER41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | CT58 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CT59 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CT60 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | CT61 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | DS01 | MA165 | SI DIODE | | |
| | DS02 | MA165 | SI DIODE | | |
| | DS03 | MA165 | SI DIODE | | |
| | DS04 | MA165 | SI DIODE | | |
| | DS05 | MA165 | SI DIODE | | |
| | DS06 | MA165 | SI DIODE | | |
| | DS07 | MA165 | SI DIODE | | |
| | DS12 | MA165 | SI DIODE | | |
| | DS13 | MA165 | SI DIODE | | |
| | DS14 | MA700A | S.B.DIODE | | |
| | DT51 | LN01301C-LF2 | LED | | |
| | DT52 | LN01301C-LF2 | LED | | |
| | DT53 | SLR-34VR7OF124 | LED | | |
| | DT54 | LN01301C-LF2 | LED | | |
| | ICS1 | UPD1713AG-645 | IC | J AM 1710KHZ | |
| | ICT51 | LR3441 | IC | | |
| | LCDT1 | VGL1118-001 | L.C.D | | |
| | LS01 | VQP0012-471 | INDUCTOR | | |
| | LS03 | VQP025K-4R7Y | INDUCTOR | | |
| | LS04 | VQP025K-221Y | INDUCTOR | | |
| | PL01 | VGZ0001-039 | P.LAMP | | |
| | QS01 | 2SA1309(RS) | TRANSISTOR | | |
| | QS02 | 2SC2785 | TRANSISTOR | | |
| | QS03 | 2SC2785 | TRANSISTOR | | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | QS04 | 2SA1309(RS) | TRANSITOR | | |
| | QS05 | 2SA1309(RS) | TRANSISTOR | | |
| | QS06 | 2SA1309(RS) | TRANSISTOR | | |
| | QS07 | UN4213 | TRANSISTOR | | |
| | QT51 | 2SC1685(R,S) | TRANSISTOR | | |
| | QT52 | 2SC1685(R,S) | TRANSISTOR | | |
| | QT53 | UN411E | TRANSISTOR | | |
| | RS01 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS02 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| | RS03 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS04 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS05 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | RS06 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| | RS07 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | RS08 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| | RS09 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | RS10 | QRD161J-474 | CARBON RESISTOR | 470K 5% 1/6W | |
| | RS11 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS12 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS13 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RS14 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RS15 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS16 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RS17 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS18 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS19 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | RS20 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RS23 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| | RS24 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RS26 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | RS27 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RT51 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RT52 | QRD161J-474 | CARBON RESISTOR | 470K 5% 1/6W | |
| | RT53 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | RT54 | QRD161J-155 | C RESISTOR | 1.5M 5% 1/6W | |
| | RT55 | QRD161J-561 | C RESISTOR | 560 5% 1/6W | |
| | RT56 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | RT57 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | RT60 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | RT61 | QRD161J-221 | C RESISTOR | 220 5% 1/6W | |
| | SS01 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS02 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS03 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS04 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS05 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS06 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS07 | QSP4H11-V06Z | TACT SWITCH | | |
| | SS08 | QSP4H11-V06Z | TACT SWITCH | | |
| | ST51 | QSP4H11-V06Z | TACT SWITCH | SLEEP OFF | |
| | ST52 | QSP4L22-V02 | PUSH SWITCH | SLEEP ON | |
| | ST53 | QSP4H11-V06Z | TACT SWITCH | MINUTE SET | |
| | ST54 | QSP4H11-V06Z | TACT SWITCH | HOUR SET | |
| | ST55 | QSP4H11-V06Z | TACT SWITCH | TIMER SET | |
| | ST56 | QSP4H11-V06Z | TACT SWITCH | TIME ADJ | |
| | XS01 | V472124-A0 | CRYSTAL | 4.5MHZ | |
| | XT51 | VCX5000-001 | CRYSTAL | | |

## ● CD Amplifier Board Parts List

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN501 | VMC0075-010N | CONNECTOR | | |
| | CN502 | VMC0075-006N | CONNECTOR | | |
| | CN503 | VMC0075-004N | CONNECTOR | | |
| | CN504 | VMC0163-012 | CONNECTOR | | |
| | CN701 | VMC0163-R12 | CONNECTER | FOR CD AMP | |
| | CN712 | VMC0075-006N | CONNECTOR | TO MOTER DRIVER | |
| | CN771 | VMC0075-R02N | CONNECTOR | | |
| | C502 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C505 | QCBB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |
| | C506 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | C507 | QCS11HJ-680 | C CAPACITOR | 68PF 5% 50V | |
| | C508 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C509 | QCS11HJ-680 | C CAPACITOR | 68PF 5% 50V | |
| | C510 | QCSB1HK-2R2Y | C CAPACITOR | 2.2PF 10% 50V | |
| | C511 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | C512 | QCS11HJ-220 | C CAPACITOR | 22PF 5% 50V | |
| | C513 | QCBB1HK-820Y | C CAPACITOR | 82PF 10% 50V | |
| | C514 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C515 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C516 | QCS11HJ-470 | C CAPACITOR | 47PF 5% 50V | |
| | C517 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C518 | QCBB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C519 | QCS11HJ-330 | C CAPACITOR | 33PF 5% 50V | |
| | C520 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C521 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C522 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | |
| | C523 | QCBB1HK-221Y | C CAPACITOR | 220PF 10% 50V | |
| | C525 | QER41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C526 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C527 | QEN61HM-105Z | NP.E.CAPACITOR | 1.0MF 20% 50V | |
| | C528 | QFV41HJ-223 | FILM CAPACITOR | .022MF 5% 50V | |
| | C529 | QFV71HJ-273ZM | TF.CAPACITOR | .027MF 5% 50V | |
| | C531 | QCY41HK-822 | C CAPACITOR | 8200PF 10% 50V | |
| | C535 | QFV41HJ-224 | TF CAPACITOR | .22MF 5% 50V | |
| | C544 | QCS11HJ-100 | C CAPACITOR | 10PF 5% 50V | |
| | C545 | QCS11HJ-100 | C CAPACITOR | 10PF 5% 50V | |
| | C548 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C549 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C550 | QETC1AM-476ZN | E CAPACITOR | 47MF 20% 10V | |
| | C552 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C563 | QFV41HJ-123 | FILM CAPACITOR | .012MF 5% 50V | |
| | C587 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C595 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C604 | QETC1AM-226ZN | E CAPACITOR | 22MF 20% 10V | |
| | C605 | QETC1AM-226ZN | E CAPACITOR | 22MF 20% 10V | |
| | C606 | QCXB1CM-182Y | C.CAPACITOR | 1800PF 20% 16V | |
| | C607 | QCXB1CM-182Y | C.CAPACITOR | 1800PF 20% 16V | |
| | C608 | QCXB1CM-152Y | C CAPACITOR | 1500PF 20% 16V | |
| | C609 | QCXB1CM-152Y | C CAPACITOR | 1500PF 20% 16V | |
| | C610 | QCBB1HK-121Y | C CAPACITOR | 120PF 10% 50V | |
| | C611 | QCBB1HK-121Y | C CAPACITOR | 120PF 10% 50V | |
| | C612 | QETC1AM-226ZN | E CAPACITOR | 22MF 20% 10V | |
| | C613 | QETC1AM-226ZN | E CAPACITOR | 22MF 20% 10V | |
| | C614 | QCC11EM-123 | C CAPACITOR | .012MF 20% 25V | |
| | C615 | QCC11EM-123 | C CAPACITOR | .012MF 20% 25V | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C616 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C617 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C618 | QCC11EM-223V | C CAPACITOR | .022MF 20% 25V | |
| | C620 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C623 | QETC1AM-477ZN | E CAPACITOR | 470MF 20% 10V | |
| | C641 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C650 | QCC31EM-473ZV | C CAPACITOR | .047MF 20% 25V | |
| | C701 | QER41AM-107 | E CAPACITOR | 100MF 20% 10V | |
| | C705 | QCC11EM-103V | C CAPACITOR | .010MF 20% 25V | |
| | C706 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C751 | QER41AM-107 | E CAPACITOR | 100MF 20% 10V | |
| | C752 | QFV81HJ-683 | TF CAPACITOR | .068MF 5% 50V | |
| | C753 | QFV81HJ-683 | TF CAPACITOR | .068MF 5% 50V | |
| | D603 | MA165 | SI DIODE | | |
| | D610 | HZS5.6EB3 | Z DIODE | | |
| | D701 | MA165 | SI DIODE | | |
| | D702 | MA165 | SI DIODE | | |
| | D703 | MA165 | SI DIODE | | |
| | D704 | MA165 | SI DIODE | | |
| | D705 | MA165 | SI DIODE | | |
| | D706 | MA165 | SI DIODE | | |
| | FB11 | VQZ0048-009 | INDUCTOR | | |
| | FB12 | VQZ0048-009 | INDUCTOR | | |
| | FB13 | VQZ0048-009 | INDUCTOR | | |
| | IC501 | MC13501M | IC | RF IC | |
| | IC502 | NJM3403D-C | IC | SERVO PRE | |
| | IC503 | BA6294 | IC | ACTUATER DRIVER | |
| | IC504 | BA6294 | IC | MOTER DRAIVER | |
| | IC602 | TC9201BF | IC | SERVO PROCESSER | |
| | IC603 | TC9200BF | IC | DETA PROCESSER | |
| | IC604 | LH5116Y-10 | IC | SRAM | |
| | IC605 | UPD6372CX | IC | DAC | |
| | IC606 | SM5807FP | IC | DIGITAL FILTER | |
| | IC607 | XRA15218N | IC | LPF | |
| | IC701 | UPD75312GF-096 | IC(CPU) | CONTROLLER | |
| | IC702 | MN1280(R) | IC | RESET | |
| | IC703 | SBX1610-02 | RM RECIVER | REMOTE SENSOR | |
| | IC751 | TA8409S | IC | | |
| | LCD02 | VGL1099-001 | LCD | | |
| | L710 | VQP0010-100 | INDUCTOR | | |
| | PL701 | VGZ0001-028V | P.LAMP | BACK LIGHT | |
| | Q501 | 2SA1175 | TRANSISTOR | BUFFER AMP | |
| | Q503 | 2SC2785 | TRANSISTOR | EMPHASIS SW | |
| | Q504 | 2SC2785 | TRANSISTOR | EMPHASIS SW | |
| | Q505 | 2SA1175 | TRANSISTOR | ENPHASIS SWITCH | |
| | Q614 | 2SD1302(S,T) | TRANSISTOR | REGURETER | |
| | Q701 | UN4211 | TRANSISTOR | | |
| | Q751 | RN1206 | TRANSISTOR | | |
| | Q752 | RN1206 | TRANSISTOR | | |
| | R501 | QRD161J-184 | CARBON RESISTOR | 180K 5% 1/6W | |
| | R502 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| | R503 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | R504 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R505 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R506 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R507 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R508 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| | R509 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R510 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R511 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R512 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| | R513 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R514 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| | R515 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | R516 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| | R517 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R519 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | R520 | QRV141F-3302AY | CMF RESISTOR | 33 1% 1/4W | |
| | R521 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | R522 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R523 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R524 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| | R525 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| | R526 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | R527 | QRD161J-564 | CARBON RESISTOR | 560K 5% 1/6W | |
| | R528 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R529 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R530 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R531 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R532 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| | R533 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R534 | QRD161J-821 | CARBON RESISTOR | 820 5% 1/6W | |
| | R535 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R536 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R537 | QRD161J-563 | CARBON RESISTOR | 56K 5% 1/6W | |
| | R538 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| | R539 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | R540 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R541 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R542 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| | R544 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R545 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R546 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R547 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R548 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R549 | QRD161J-181 | CARBON RESISTOR | 180 5% 1/6W | |
| | R550 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R559 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R560 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R566 | QRD161J-391 | CARBON RESISTOR | 390 5% 1/6W | |
| | R570 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R573 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| | R590 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R620 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R621 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R622 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R623 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R640 | QRD161J-821 | CARBON RESISTOR | 820 5% 1/6W | |
| | R641 | QRD161J-470 | CARBON RESISTOR | 47 5% 1/6W | |
| | R644 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R645 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| | R647 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R649 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R660 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| | R661 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| | R662 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R663 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R664 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R665 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R666 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R667 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R668 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| | R669 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| | R672 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| | R673 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| | R676 | QRV141F-8202AY | CMF RESISTOR | 82 1% 1/4W | |
| | R677 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | R678 | QRV141F-3302AY | CMF RESISTOR | 33 1% 1/4W | |
| | R681 | QRV141F-8202AY | CMF RESISTOR | 82 1% 1/4W | |
| | R682 | QRV141F-3302AY | CMF RESISTOR | 33 1% 1/4W | |
| | R684 | QRV141F-8202AY | CMF RESISTOR | 82 1% 1/4W | |
| | R685 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R686 | QRV141F-3302AY | CMF RESISTOR | 33 1% 1/4W | |
| | R687 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R688 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R690 | PTH61G30BD2R2N | POSISTER | | |
| | R691 | QRV141F-8202AY | CMF RESISTOR | 82 1% 1/4W | |
| | R692 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| | R695 | QRV141F-8202AY | CMF RESISTOR | 82 1% 1/4W | |
| | R696 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| | R697 | QRV141F-3302AY | CMF RESISTOR | 33 1% 1/4W | |
| | R698 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | R699 | PTH61G30BD2R2N | POSISTER | | |
| | R721 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R722 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R723 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R724 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R725 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R741 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R742 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R751 | QRD121J-2R2 | CARBON RESISTOR | 2.2 5% 1/2W | |
| | R752 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R753 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R780 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R790 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | S701 | QSQ4H11-V02Z | TACT SWITCH | PLAY/PAUSE | |
| | S702 | QSQ4H11-V02Z | TACT SWITCH | STOP/CLEAR | |
| | S703 | QSQ4H11-V02Z | TACT SWITCH | F SKIP /F SARCH | |
| | S704 | QSQ4H11-V02Z | TACT SWITCH | B SKIP /B SARCH | |
| | S709 | QSQ4H11-V02Z | TACT SWITCH | (A/B) | |
| | S710 | QSQ4H11-V02Z | TACT SWITCH | LINK | |
| | S711 | QSP4K11-V01 | PUSH SWITCH | OPEN/CLOSE | |
| | S751 | VSH1153-001 | SWITCH | | |
| | S752 | VSH1153-001 | SWITCH | | |
| | VR501 | QVZ3523-503AZ | V RESISTOR | E/F BALANCE | |
| | X601 | VCX5016-934V | CRYSTAL | | |
| | X701 | EFO-GC4194T4 | CERAMIC RESONAT | 4.194MHZ | |

## ● Function Board Parts List

BLOCK NO. 05□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN301 | VMC0232-S12 | CONNECTOR | POWER 12P | |
| | CN302 | VMC0232-S10 | CONNECTOR | POWER 10P | |
| | CN304 | EMV7112-005 | SOCKET | CD | |
| | CN305 | VMC0075-R12N | CONNECTOR | CD U-COM | |
| | CN306 | EMV7112-008 | CONNECTOR | SW | |
| | CN307 | VMC0075-006N | CONNECTOR | PRE | |
| | CN308 | VMC0075-R13N | CONNECTOR | PRE | |
| | CN309 | EMV7112-007 | SOCKET | TUNER | |
| | CN310 | VMC0075-006N | CONNECTOR | DTS | |
| | CN311 | VMC0075-008N | CONNECTOR | TIMER | |
| | CN312 | VMC0075-008N | CONNECTOR | SEA SW | |
| | CN313 | VMC0075-006N | CONNECTOR | SEA | |
| | CN314 | VMC0075-006N | CONNECTOR | MAIN VR | |
| | CN315 | VMC0232-S08 | CONNECTOR | SP | |
| | CN316 | VMC0075-002N | CONNECTOR | VR LED | |
| | CN324 | VMC0075-004N | CONNECTOR | | |
| | CN397 | VMC0075-005N | CONNECTOR | | |
| | C151 | QETC1HM-225ZN | E CAPACITOR | 2.2MF 20% 50V | |
| | C152 | QCS11HJ-330 | C CAPACITOR | 33PF 5% 50V | |
| | C153 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C161 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C162 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C171 | QFV81HJ-683 | TF.CAPACITOR | .068MF 5% 50V | |
| | C172 | QER41HM-225 | E.CAPACITOR | 2.2MF 20% 50V | |
| | C173 | QCC31EM-153ZV | C.CAPACITOR | .015MF 20% 25V | |
| | C174 | QER61HM-474ZM | E CAPACITOR | .47MF 20% 50V | |
| | C175 | QCXB1CM-392Y | C.CAPACITOR | 3900PF 20% 16V | |
| | C176 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C177 | QCBB1HK-821Y | C.CAPACITOR | 820PF 10% 50V | |
| | C178 | QCC31EM-333ZV | C CAPACITOR | .033MF 20% 25V | |
| | C179 | QCC11EM-123 | C CAPACITOR | .012MF 20% 25V | |
| | C180 | QER61HM-684ZN | E CAPACITOR | .68MF 20% 50V | |
| | C181 | QER41HM-105 | E CAP | 1.0MF 20% 50V | |
| | C182 | QER41HM-105 | E CAP | 1.0MF 20% 50V | |
| | C185 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C251 | QETC1HM-225ZN | E CAPACITOR | 2.2MF 20% 50V | |
| | C252 | QCS11HJ-330 | C CAPACITOR | 33PF 5% 50V | |
| | C253 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C261 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C262 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C271 | QFV81HJ-683 | TF.CAPACITOR | .068MF 5% 50V | |
| | C272 | QER41HM-225 | E.CAPACITOR | 2.2MF 20% 50V | |
| | C273 | QCC31EM-153ZV | C.CAPACITOR | .015MF 20% 25V | |
| | C274 | QER61HM-474ZM | E CAPACITOR | .47MF 20% 50V | |
| | C275 | QCXB1CM-392Y | C.CAPACITOR | 3900PF 20% 16V | |
| | C276 | QCC11EM-104V | C CAPACITOR | .10MF 20% 25V | |
| | C277 | QCBB1HK-821Y | C.CAPACITOR | 820PF 10% 50V | |
| | C278 | QCC31EM-333ZV | C CAPACITOR | .033MF 20% 25V | |
| | C279 | QCC11EM-123 | C CAPACITOR | .012MF 20% 25V | |
| | C280 | QER61HM-684ZN | E CAPACITOR | .68MF 20% 50V | |
| | C281 | QER41HM-105 | E CAP | 1.0MF 20% 50V | |
| | C282 | QER41HM-105 | E CAP | 1.0MF 20% 50V | |
| | C285 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C351 | QETC1CM-476ZM | E CAPACITOR | 47MF 20% 16V | |
| | C352 | QETC1CM-476ZM | E CAPACITOR | 47MF 20% 16V | |

BLOCK NO. 05□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C361 | QETC1CM-336ZN | E.CAPACITOR | 33MF 20% 16V | |
| | C362 | QCY41HK-152 | C CAPACITOR | 1500PF 10% 50V | |
| | C363 | QCY41HK-332 | C CAPACITOR | 3300PF 10% 50V | |
| | C364 | QCY41HK-332 | C CAPACITOR | 3300PF 10% 50V | |
| | C365 | QCY41HK-152 | C CAPACITOR | 1500PF 10% 50V | |
| | C366 | QETC1HM-476ZN | E CAPACITOR | 47MF 20% 50V | |
| | C367 | QETC1CM-336ZN | E.CAPACITOR | 33MF 20% 16V | |
| | C368 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C371 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C391 | QETC1CM-106ZN | E CAPACITOR | 10MF 20% 16V | |
| | C801 | QETC1AM-227ZN | E CAPACITOR | 220MF 20% 10V | |
| | C802 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C803 | QCBB1HK-181Y | C.CAPACITOR | 180PF 10% 50V | |
| | C804 | QCS11HJ-360 | C CAPACITOR | 36PF 5% 50V | |
| | C805 | QCS11HJ-360 | C CAPACITOR | 36PF 5% 50V | |
| | C806 | QCBB1HK-181Y | C.CAPACITOR | 180PF 10% 50V | |
| | C807 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C808 | QETC1HM-105ZN | E CAPACITOR | 1.0MF 20% 50V | |
| | C809 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C811 | QETC1HM-475ZN | E CAPACITOR | 4.7MF 20% 50V | |
| | C812 | QCBB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | C813 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C816 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C817 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C818 | QCBB1HK-151Y | C CAPACITOR | 150PF 10% 50V | |
| | C861 | QETC1EM-106ZN | E CAPACITOR | 10MF 20% 25V | |
| | C862 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C865 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C866 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C879 | QETC1CM-476ZM | E CAPACITOR | 47MF 20% 16V | |
| | C881 | QCVB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C931 | QETC1AM-107ZN | E CAPACITOR | 100MF 20% 10V | |
| | C932 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | C933 | QCVB1CN-103Y | C CAPACITOR | .010MF 30% 16V | |
| | D341 | MA165 | SI DIODE | | |
| | D391 | SLR-34VR70F124 | LED | | |
| | D803 | MA165 | SI DIODE | | |
| | D804 | MA165 | SI DIODE | | |
| | D805 | MA165 | SI DIODE | | |
| | D807 | MA165 | SI DIODE | | |
| | D808 | MA700A | S.B.DIODE | | |
| | D809 | HZS6B3 | ZENER DIODE | | |
| | D811 | MA165 | SI DIODE | | |
| | D812 | MA165 | SI DIODE | | |
| | D813 | MA165 | SI DIODE | | |
| | D814 | MA165 | SI DIODE | | |
| | D815 | MA165 | SI DIODE | | |
| | D816 | MA165 | SI DIODE | | |
| | D821 | MA165 | SI DIODE | | |
| | D822 | MA165 | SI DIODE | | |
| | D823 | MA165 | SI DIODE | | |
| | D861 | MA165 | SI DIODE | | |
| | D875 | MA165 | SI DIODE | | |
| | D876 | MA165 | SI DIODE | | |
| | D881 | SLV-31VC70F124 | LED | 3D | |

BLOCK NO. 05

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | D882 | SLR-34VC3F | LED (M.N.P) | FWD | |
| | D883 | SLR-34VC3F | LED (M.N.P) | REV | |
| | D884 | MA165 | SI DIODE | | |
| | D885 | MA165 | SI DIODE | | |
| | D891 | SLR-34VC3F | LED (M.N.P) | STBY | |
| | D892 | SLR-34VR70F124 | LED | LE | |
| | IC351 | XRA15218N | IC | LINE AMP | |
| | IC361 | VUC2003-001 | IC | | |
| | IC371 | BA3823LS | IC | | |
| | IC801 | MB88507-1293M | IC | SYSTEM U-COM | |
| | IC802 | MN1280(R) | IC | RESET | |
| | IC803 | BA6208A | IC | | |
| | IC861 | AN78L05 | IC | | |
| | J301 | EMB90YV-401A | SPK.TERMINAL | SP | |
| | L341 | EQF0101-002 | FILTER | | |
| | L801 | VQP0028-100Z | INDUCTOR | | |
| | L802 | VQZ0048-009 | INDUCTOR | | |
| | L803 | VQP025K-4R7Y | INDUCTOR | | |
| | L804 | VQZ0048-007 | INDUCTOR | | |
| | Q141 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q142 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q143 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q155 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q161 | UN4210 | TRANSISTOR | | |
| | Q191 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q241 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q242 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q243 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q255 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q261 | UN4210 | TRANSISTOR | | |
| | Q291 | 2SD1302(S,T) | TRANSISTOR | | |
| | Q341 | UN411E | TRANSISTOR | | |
| | Q342 | UN411E | TRANSISTOR | | |
| | Q343 | UN411E | TRANSISTOR | | |
| | Q344 | UN4213 | TRANSISTOR | | |
| | Q355 | 2SA564(R,S) | TRANSISTOR | | |
| | Q361 | UN411E | TRANSISTOR | | |
| | Q362 | UN4213 | TTANSISTOR | | |
| | Q391 | 2SA564(R,S) | TRANSISTOR | | |
| | Q801 | 2SC2001(L,K) | TRANSISTOR | | |
| | Q802 | 2SC2001(L,K) | TRANSISTOR | | |
| | Q803 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q804 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q805 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q806 | UN4211 | TRANSISTOR | | |
| | Q811 | UN411E | TRANSISTOR | | |
| | Q812 | UN411E | TRANSISTOR | | |
| | Q813 | UN411E | TRANSISTOR | | |
| | Q871 | 2SA952(L,K) | TRANSISTOR | | |
| | Q872 | UN4211 | TRANSISTOR | | |
| | Q873 | 2SA952(L,K) | TRANSISTOR | | |
| | Q874 | UN4211 | TRANSISTOR | | |
| | Q875 | 2SA952(L,K) | TRANSISTOR | | |
| | Q876 | UN4211 | TRANSISTOR | | |
| | Q881 | 2SC3311(R,S) | TRANSISTOR | | |

BLOCK NO. 05

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q882 | 2SC3311(R,S) | TRANSISTOR | | |
| | Q931 | 2SA952(L,K) | TRANSISTOR | | |
| | Q932 | UN4213 | TRANSISTOR | | |
| | Q933 | UN4213 | TRANSISTOR | | |
| | Q934 | UN4213 | TRANSISTOR | | |
| | R141 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R142 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R143 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R144 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R145 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R146 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R147 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R148 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R149 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R150 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R151 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R152 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R155 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R156 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R161 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | R162 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R163 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| | R164 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| | R165 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R166 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R171 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| | R175 | QWY124-5.0Y | BUS WIRE | | |
| | R176 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R177 | QWY124-5.0Y | BUS WIRE | | |
| | R191 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R192 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R193 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R241 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R242 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R243 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R244 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R245 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R246 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R247 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R248 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R249 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R250 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R251 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R252 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R255 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R256 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R261 | QRD161J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| | R262 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R263 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| | R264 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| | R265 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R266 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R271 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| | R275 | QWY124-5.0Y | BUS WIRE | | |
| | R276 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |

BLOCK NO. 05□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R277 | QWY124-5.0Y | BUS WIRE | | |
| | R291 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R292 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R293 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R340 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R345 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R346 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R347 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R348 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R349 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R351 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | R352 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R353 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R355 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R356 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R357 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R361 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | R362 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R371 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R391 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R392 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R393 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| | R394 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R801 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R802 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R803 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R804 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R806 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R807 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R808 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R809 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R810 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R811 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R812 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R813 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R814 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R815 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R817 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R818 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R819 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R821 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R822 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R823 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| | R824 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R825 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R826 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R827 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R828 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R829 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R830 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R831 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R832 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R833 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R834 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R835 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |

BLOCK NO. 05□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R836 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R846 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R847 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R848 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R849 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R850 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | R851 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R852 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| | R853 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R854 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| | R855 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R856 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R857 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R859 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R860 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R865 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R866 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R869 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R871 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R872 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R873 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| | R874 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R875 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| | R876 | QRD161J-180 | CARBON RESISTOR | 18 5% 1/6W | |
| | R877 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R878 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | R879 | QRD161J-390 | CARBON RESISTOR | 39 5% 1/6W | |
| | R880 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R881 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R882 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R883 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R884 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R885 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R886 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R887 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R888 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R889 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R891 | QRD161J-561 | CARBON RESISTOR | 560 5% 1/6W | |
| | R931 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R933 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R937 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| | S881 | QSP2256-005 | PUSH SWITCH | DUB | |
| | S882 | QSP2256-005 | PUSH SWITCH | DOLBY | |
| | S883 | QSP2256-005 | PUSH SWITCH | 70H-MONO/ST | |
| | S884 | QSP2256-005 | PUSH SWITCH | 3D | |
| | S891 | QSQ4H11-V02Z | TACT SW | | |
| | S892 | QSQ4H11-V02Z | TACT SW | | |
| | S893 | QSQ4H11-V02Z | TACT SW | | |
| | S894 | QSQ4H11-V02Z | TACT SW | | |
| | VR371 | QVXB1JG-V15 | V RESISTOR | | |
| | VR372 | QVXB1JG-V15 | V RESISTOR | | |
| | VR373 | QVXB1JG-V15 | V RESISTOR | | |
| | VR374 | QVXB1JG-V15 | V RESISTOR | | |
| | VR375 | QVXB1JG-V15 | V RESISTOR | | |
| | VR391 | VCV1001-101 | VR WITH MOTOR | MAIN VR | |
| | X801 | CSA2.00MG040-T | CERA LOCK | 2MHZ | |

# 8 Packing and Parts List

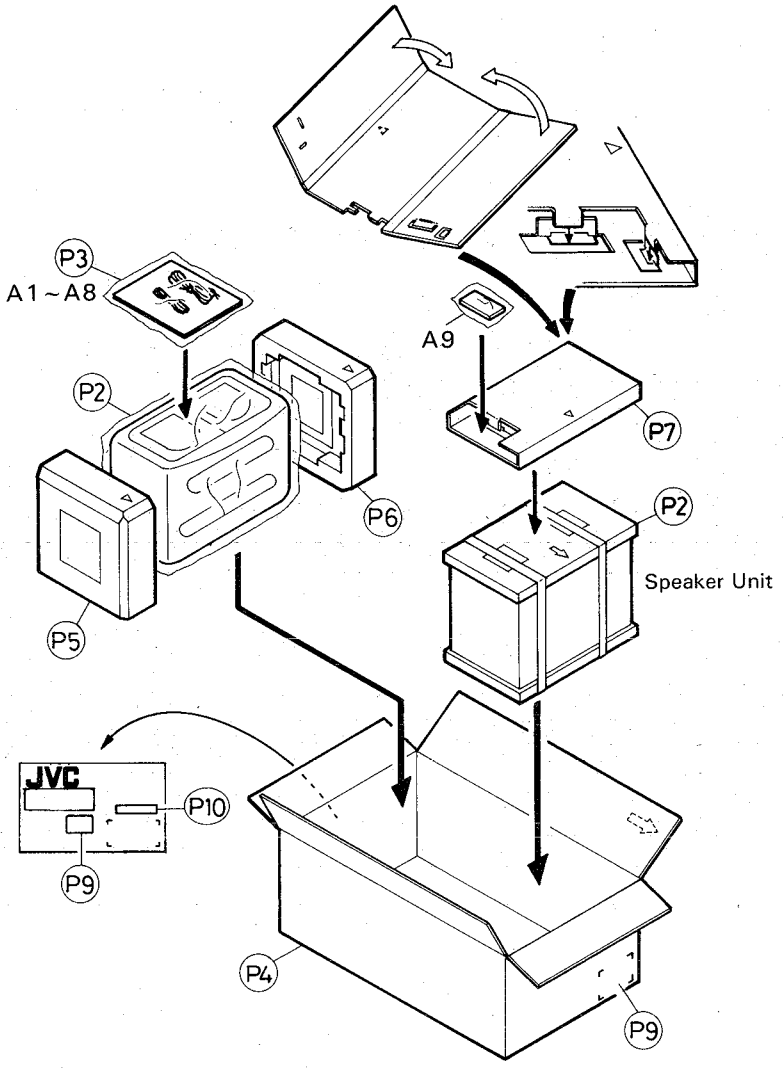



Fig. 8-1

## ■ Packing Parts List

BLOCK NO. M8MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX |
|---|---|---|---|---|---|---|
| | A 1 | VNN7059-441 | INST BOOK | BELUGIUM/N LAND | 1 | E |
| | | VNN7059-211 | INSTRUCTIONS | | 1 | B,E |
| | A 2 | QMP3950-183 | POWER CORD | | 1 | E |
| | | QMP5510-183BS | POWER CORD | | 1 | B |
| | A 3 | BT20060 | WARRANTY CARD | | 1 | B |
| | A 4 | BT20066A | WARRANTY CARD | | 1 | B |
| | A 5 | E43486-340B | SAFETY INST.SHE | | 1 | |
| | A 6 | UM4NJ-2P | BATTERY | | 2 | |
| | A 7 | VMP0093-002 | SPKR CORD | | 2 | |
| | A 8 | QZL1007-001 | BEAB LABEL | | 1 | B |
| | A 9 | VGR0003-001 | REMOCON UNIT | | 1 | |
| | P 2 | VPE3020-065 | POLY BAG | FOR UNIT | 1 | |
| | P 3 | VPE3005-007 | POLY BAG | FOR INSTRUCTION | 1 | |
| | P 4 | VPC7059-001 | CARTON | | 1 | |
| | P 5 | VPH1562-001 | CUSHION(LEFT) | | 1 | |
| | P 6 | VPH1563-001 | CUSHION(RIGITE) | | 1 | |
| | P 7 | VPK4266-001 | SPACER | | 1 | |
| | P 9 | VND3044-004 | SERIAL TICKET | | 2 | |
| | P10 | VND3025-141 | UPC CODE LABEL | | 1 | |

## ■ Specifications

**Compact disc player section**

| | | |
|---|---|---|
| Type | : | Compact disc player |
| Signal detection system | : | Non-contact optical pickup (semiconductor laser) |
| Number of channels | : | 2 channels (stereo) |
| Frequency response | : | 16 Hz – 20,000 Hz |
| Signal-to-noise ratio | : | 90 dB |
| Wow & flutter | : | Less than measurable limit |

**Radio section**

| | | |
|---|---|---|
| Frequency ranges | : | FM 87.5 – 108 MHz<br>MW 522 – 1,629 kHz<br>LW 144 – 288 kHz |
| Antennas | : | Telescopic antenna for FM<br>Ferrite core antenna for MW & LW |

**Tape deck section**

| | | |
|---|---|---|
| Track system | : | 4-track 2-channel stereo |
| Motor | : | Electronic governor DC motor for capstan |
| Heads | : | Deck A; Hard permalloy head (for recording/ playback), Permalloy head for erasure<br>Deck B; Hard permalloy head for playback |
| Frequency response | : | 40 –14,000 Hz (with metal tape/normal speed) |
| Wow & flutter | : | 0.16 % (WRMS) |
| Fast wind time | : | Approx. 120 sec. (deck A) (C-60 cassette)<br>Approx. 170 sec. (deck B) (C-60 cassette) |

**General**

| | | |
|---|---|---|
| 3D system | : | ASW (Acoustic Super Woofer) |
| Power output | : | 16W (8 W + 8 W) at 3 Ω and 20 W for 3D at 4 Ω (Max.)<br>10W (5W+5W) at 3 Ω and 16 W for 3D at 4 Ω (10 % THD) |
| S.E.A. characteristics | : | S.E.A. center frequencies:<br>63 Hz/ 250 Hz/ 1 kHz/ 4 kHz/ 16 kHz<br>S.E.A. control range : ±10 dB |
| Output terminals | : | Speaker x 2 (matching impedance 3–16 Ω)<br>PHONES x 1<br>(Output level: 0–15 mW/32 Ω<br>Matching impedance: 16 Ω-1k Ω) |
| Power supply | : | AC 240 V, 50/60 Hz (PC-XT7B)<br>AC 230V, 50/60 Hz (PC-XT7E/G)<br>DC 12 V (8 "R20" batteries)<br>(PC-XT7E) Ext. DC IN 12V (car battery via market available car adapter) |
| Power consumption | : | 43 W (with POWER SW ON)<br>3.2 W (with POWER SW STANDBY) |
| Dimensions | : | 708(W) x 271(H) x 275(D) mm (27-7/8" x 10-11/16" x 10-7/8") including knobs |
| Weight | : | Approx. 10.9 kg (24.1 lbs) (without batteries)<br>Approx. 11.7 kg (25.8 lbs) (with batteries) |
| Accessories provided | : | AC power cord<br>Remote control unit (RM-RX1007)<br>Battery "R03" x 2 (for the remote control)<br>Speaker cord x 2 |

**Speaker Section (each unit)**

| | | |
|---|---|---|
| Speakers | : | Tweeter 5 cm x 1 (2 Ω)<br>Woofer 12 cm x 1 (3 Ω) |
| Dimensions | : | 179(W) x 248(H) x 199(D) mm (7-1/16" x 9-13/16" x 7-7/8") |
| Weight | : | Approx. 2.2 kg (4.9 lbs) |

Design and specifications are subject to change without notice.